

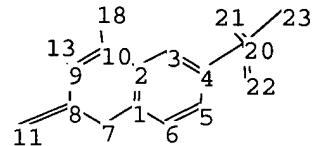
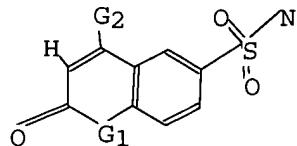
10/801,910

FILE 'HOME' ENTERED AT 14:00:26 ON 26 MAY 2005

=> file req

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Uploading C:\Program Files\Stnexp\Queries\10801910.str
Ak-¹ 15-¹



chain nodes :

11 13 14 15 18 20 21 22 23

ring nodes ;

1 2 3 4 5 6 7 8 9 10

chain bonds :

4-20 8-11

ring bonds :

1-2 1-6 1-7 2-3

exact/norm bonds :

1-7 2-10 4-20 7

normalized bonds :

Normalized bonds : 1-2 1-6 2-3 3-4 4-5

isolated ring

C1-O-N

C3-H Ak [**]

Match level

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 20:CLASS 21:CLASS 22:CLASS
23:CLASS

L1 STRUCTURE UPLOADED

=> d 11

11 HAS NO ANSWERS

10/801,910

L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
L3 642 SEA SSS FUL L1

=> file ca

=> s l3
L4 58 L3

=> d ibib abs fhitstr 1-58

10/801,910

L4 ANSWER 1 OF 58 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 142:210129 CA
TITLE: Parallel Liquid-Phase Synthesis of N-Substituted 6-Aminosulfonyl-2-oxo-1,2-dihydroquinoline-4-carboxamide and 6-Aminosulfonylquinoline-4-carboxamide Derivatives

AUTHOR(S): Ivachchenko, Alexandre V.; Kobak, Vladimir V.; Ilyn, Alexey P.; Khvat, Alexander V.; Kysil, Volodymyr H.; Williams, Caroline T.; Kuzovkova, Julia A.; Kravchenko, Dmitry V.

CORPORATE SOURCE: Chemical Diversity Labs, Inc., San Diego, CA, 92121, USA

SOURCE: Journal of Combinatorial Chemistry (2005), 7(2), 227-235

PUBLISHER: American Chemical Society

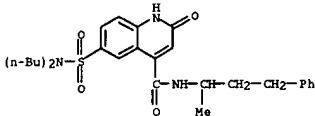
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two efficient strategies for solution-phase parallel synthesis of libraries of quinoline derivs. are described. The first synthetic pathway features the Pfitzinger reaction of isatin with di-Et malonate and sulfonylation of the resulting 2-oxo-1,2-dihydroquinoline-4-carboxylic acid followed by generation of sulfonamide library. The second strategy employs the unusual behavior of 5-sulfamoylation in Pfitzinger reactions, which results in formation of 6-sulfamoyl-4-carboxyquinolines instead of the anticipated 2-oxo-1,2-dihydroquinoline structures. The obtained carboxylates appeared to be convenient synthetic intermediates for the generation of the corresponding carboxamide libraries. Using these reagents, the parallel solution-phase synthesis of more than 500 substituted quinoline and 2-oxo-1,2-dihydroquinoline derivs. has been accomplished on the 50-100-mg scale. Simple manual techniques for parallel reactions using special CombiSyn synthesizers were coupled with easy purification procedures to give high-purity final products. The scope and limitations of the developed approaches are discussed.

IT 697254-13-0P
RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP (Preparation)
(parallel liquid-phase synthesis of libraries of N-substituted 6-amino-6-sulfonyl-2-oxo-1,2-dihydroquinoline-4-carboxamide and 6-amino-6-sulfonylquinoline-4-carboxamide derivs. involving both Pfitzinger and amidation reactions)

RN 697254-13-0 CA
CN 4-Quinolinecarboxamide, 6-[(dibutylamino)sulfonyl]-1,2-dihydro-N-(1-methyl-3-phenylpropyl)-2-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 2 OF 58 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 141:331980 CA
TITLE: Further studies on the preparation of coumarin-6-sulfonylureas

AUTHOR(S): Han, Ying; Tu, Shuzi

CORPORATE SOURCE: Department of Medicinal Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China

SOURCE: Zhongguo Yaoake Daxue Xuebad (2002), 33(5), 363-366

PUBLISHER: Zhongguo Yaoake Daxue

DOCUMENT TYPE: Journal

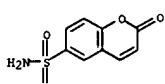
LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 141:331980

AB Eighteen title compds were prepared from reaction of anilines with aryl isocyanates. An improved process for the preparation of aryl isocyanates was presented. For example, reaction of aniline with triphosgene in CHCl₃ gave 85% PhNCO, reaction of which with coumarin-6-sulfonamide in acetone in the presence of K₂CO₃ gave 53% N-(phenylaminocarbonyl)coumarin-6-sulfonamide.

IT 90322-59-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of coumarin-6-sulfonylureas)

RN 90322-59-1 CA
CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 58 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 141:295875 CA
TITLE: Preparation of quinoline-6-sulfonamides and chromene-6-sulfonamides as androgen receptor antagonists

INVENTOR(S): Du, Daniel Yunlong; Procter, Martin James; Fyfe, Matthew Colin Thor; Shah, Vilasben Kanji; Williams, Geoffrey Martyn; Schofield, Karen Lesley

PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA

SOURCE: PCT Int. Appl., 69 pp.

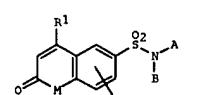
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

Patent No. Kind Date Application No. Date
WO 2004083204 A1 20040930 WO 2004-1B856 20040317
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
R: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2005004367 A1 20050106 US 2004-801910 20040316
PRIORITY APPL. INFO.: US 2003-456316P P 20030320
OTHER SOURCE(S): MARPAT 141:295875
GI

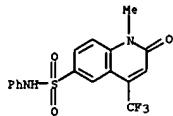


AB The title compds. [I; M = NZ, O = H, alkyl; R1 = H, alkyl, haloalkyl, alkoxyl, haloalkoxy; R2 = absent or halo, CN, OH, alkyl, etc.; A, B = H, alkyl, haloalkyl, alkenyl, Ph, etc.], useful as androgen antagonists, were prepared. Thus, amidation of 1-methyl-2-oxo-4-trifluoromethyl-1,2-dihydroquinoline-6-sulfonyl chloride (preparation given) with aniline afforded

501 I [M = N(Me); R1 = CF₃; R2 is absent; A = Ph; B = H]. The compds. I were tested in AR antagonist cell assay (IC₅₀ values were given for about 150 compds. I).

IT 764702-11-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quinoline-6-sulfonamides and chromene-6-sulfonamides as androgen receptor antagonists)

L4 ANSWER 3 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 RN 764702-11-6 CA
 CN 6-Quinolinesulfonamide, 1,2-dihydro-1-methyl-2-oxo-N-phenyl-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 ACCESSION NUMBER: 141:260561 CA
 TITLE: Preparation of focused library of quinolinecarboxylic acid derivatives, useful as caspase enzyme inhibitors
 INVENTOR(S): Ivaschenko, Alexander Vasilievich; Kobak, Vladimir Vasilievich; Kysil, Volodymyr Mikhailovich; Kuzovkova, Yuliia Aleksandrovna; Ilyin, Alexey Petrovich; Kravchenko, Dmitrii Vladimirovich; Tkachenko, Sergey Yevgenievich; Khvat, Alexander Viktorovich; Okun, Ilya Matusevich
 PATENT ASSIGNEE(S): Chemical Diversity Research Institute, Ltd., Russia
 SOURCE: PCT Int. Appl., 182 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078731	A1	20040915	WO 2004-1681	20040303
W: AE, AG, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CO, CR, CU, CZ, CZ, DE, DK, DM, DK, DK, DZ, EC, EC, ES, ES, ES, FI, GB, GD, GE, GH, GA, HR, HR, HR, HR, ID, IL, IN, IS, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LX, LX, LS, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
RU 2229475	C1	20040527	RU 2003-106182	20030306
PRIORITY APPLN. INFO.:			RU 2003-106182	A 20030306
			RU 2003-124470	A 20030808
			RU 2003-125937	A 20030826

OTHER SOURCE(S): MARPAT 141:260561

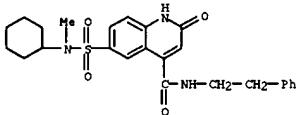
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to a preparation of focused library of quinolinecarboxylic acid derivs. of formulas I, II, and III (wherein: R1 is H, halogen, CF₃, CN, NO₂, or OH, etc.; R2 is halogen, (un)substituted alkyl, NH₂, or OH; R3 is H, halogen, alk(en)yl, (un)substituted NH₂ or OH; R4 is H, CO₂H, or C(O)NH₂; R5 is (un)substituted hydroxy- or mercapto-group, NH₂, or heterocycle, etc.; R6 is H or other inert substituent; R7 is H, CN, CF₃, NO₂, NH₂, alkylsulfonyl, or hydroxylsulfonyl, etc.; W is O, NH, or N-alkyl, etc.), useful as caspase enzyme inhibitors (no biol. data). For instance, quinolinecarboxylate derivative IV was prepared via esterification of quinolinecarboxylic acid derivative

L4 ANSWER 4 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 V by 2-FC6H4CH2Br with a yield of 74% (example 5).
 IT 687590-34-7P
 RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)
 (preparation of focused library of quinolinecarboxylic acid derivs. useful as caspase enzyme inhibitors)

RN 687590-34-7 CA
 CN 4-Quinolinecarboxamide, 6-[(cyclohexylmethylamino)sulfonyl]-1,2-dihydro-2-oxo-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

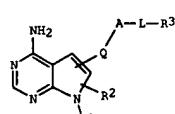
L4 ANSWER 5 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 ACCESSION NUMBER: 141:106487 CA
 TITLE: Preparation of pyrrolopyrimidine derivatives as antiproliferative agents
 INVENTOR(S): Arcari, Joel Thomas; Chen, Jinshan; Lagreca, Susan; Marx, Matthew Arnold; Wessel, Matthew David
 PATENT ASSIGNEE(S): Pfizer Products Inc., USA
 SOURCE: PCT Int. Appl., 157 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056830	A1	20040708	WO 2003-1B5841	20031208
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW, RW, BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005037999	A1	20050217	US 2003-732509	20031210
NL 1025068	A1	20040622	NL 2003-1025068	20031218
NL 1025068	C2	20041116		

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 141:106487

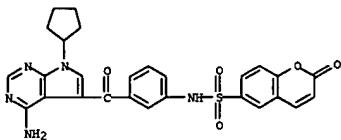
GI



AB Pyrrolopyrimidines I (Q = CO, amino, S, sulfinyl, sulfonyl, etc.; A = bond, aryl, heteroarom. ring, alkyl, etc.; L = alkylene, O, S, sulfinyl, sulfonyl, amino, etc.; R1 = H, alkyl, cycloalkyl, heterocycloalkyl, amino, etc.; R3 = H, alkyl, cycloalkyl, heterocycloalkyl, etc.) and their pharmaceutically acceptable salts, useful for treatment of hyperproliferative disorders, are prepared. Thus, reaction of 2,6-difluorophenyl isocyanate with (4-amino-7-cyclopentyl-7H-pyrrolo[2,3-d]pyrimidin-5-yl)-3-(4-amino-7-cyclopentyl-7H-pyrrolo[2,3-d]pyrimidin-5-carbonyl)phenyl]-3-(2,6-difluorophenyl)-urea.

IT 717896-05-4P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrrolopyrimidines as antiproliferative agents)

L4 ANSWER 5 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 RN 717896-05-4 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-[3-[(4-amino-7-cyclopentyl-7H-pyrrolo[2,3-d]pyrimidin-5-yl)carbonyl]phenyl]-2-oxo- (9CI) (CA INDEX NAME)

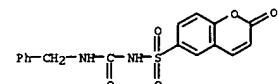


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:99034 CA
 TITLE: The interaction of human serum albumin with a novel antidiabetic agent-SU-118
 AUTHOR(S): Zhong, Wenyi; Wang, Yuchun; Yu, Jun-Sheng; Liang, Yingqiu; Ni, Kunyi; Tu, Shuzi
 CORPORATE SOURCE: State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing, 210093, P.R. China
 SOURCE: Journal of Pharmaceutical Sciences (2004), 93(4), 1039-1046
 CODEN: JPMSAE; ISSN: 0022-3549
 PUBLISHER: Wiley-Liss, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB SU-118 is a newly synthesized antidiabetic agent and shows the best hypoglycemic effect among a series of analogs. Its binding properties and binding sites located on human serum albumin (HSA) have been studied using UV absorption and fluorescence spectroscopy. The results of spectroscopic study and the thermodynamic parameters obtained suggest that SU-118 binds to the hydrophobic cavity of human serum albumin and the hydrophobic interaction is the predominant intermolecular force stabilizing the complex. Fluorescence probe displacement studies show that SU-118 can displace competitively both dansylamide and dansylsarcosine from HSA. It is suggested that SU-118 can bind to both site I and site II, but the primary interaction may take place at site I. A binding constant of 1.4×10^4 M⁻¹ and a binding site of 2.0 are obtained from absorbance titration data. The value of binding constant is of the same order of magnitude as that from fluorescence titration. This study provides a mol. basis for elucidating the mechanism of drug acting and predicting unfavorable drug interaction.

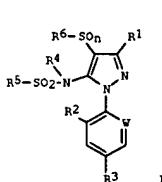
IT 718629-43-7
 RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); BIOL (Biological study)
 (interaction of human serum albumin with a novel antidiabetic agent-SU-118)
 RN 718629-43-7 CA
 CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo-N-[(phenylmethyl)amino]carbonyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:35030 CA
 TITLE: Preparation of pesticidal sulfonylaminopyrazole derivatives
 INVENTOR(S): Doeller, Uwe; Chou, David Teh-Wei; Steinsberger, Merwyn; Maier, Michael; Kuhlmann, Anke; Seeger, Karl; Hawkins, David William; Gough, Stanley Thomas; Derek; Manning, David Treadaway
 PATENT ASSIGNEE(S): Bayer CropScience S.A., Fr.
 SOURCE: PCT Int. Appl., 79 pp.
 CODEN: PIIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

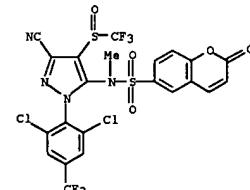
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004049797	A2	20040617	WO 2003-EP12618	20031112
WO 2004049797	A3	20040902		
W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1426362	A1	20040609	EP 2002-27034	20021203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.: EP 2002-27034				A 20021203
OTHER SOURCE(S): MARPAT 141:35030				
GI				



AB The sulfonylaminopyrazole derivs. I (R1 = (halo)alkyl, CN, C(S)NH₂ or halo; W = N, C-CH₃ or C-halo; R2 = H, Me or halo; R3 = halo, (halo)alkyl, etc.; R4 = H, (cyclo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; R5 = cycloalkyl, (un)substituted alkyl, (halo)alkenyl, etc.; R6 = (halo)alkyl, (halo)alkenyl, etc.; n = 0, 1 or 2) are prepared as insecticides, acaricides and nematocides.

IT 700366-63-8
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as pesticide)
 RN 700366-63-8 CA

L4 ANSWER 7 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 CN 2H-1-Benzopyran-6-sulfonamide, N-[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-5-yl]-N-methyl-2-oxo- (9CI) (CA INDEX NAME)

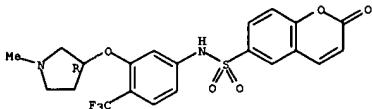


L4 ANSWER 8 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:12255 CA
 TITLE: Sulfonamides and pharmaceutical compositions containing them and uses for treating conditions associated with urotensin II imbalance
 INVENTOR(S): Girard, Gerald R.; McTee, John Jeffrey; Neeb, Michael J.
 PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004043369	A2	20040527	WO 2003-US35364	20031106
WO 2004043369	A3	20041021		
W: AE, AG, AL, AU, BA, BB, BR, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, OH, PH, PL, RO, SC, SG, TN, TT, UA, US, UZ, VN, YU, ZA				
RW: BW, GH, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GA, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: US 2002-424098P			P 20021106	
			US 2002-424274P	P 20021106

OTHER SOURCE(S): MARPAT 141:12255
 AB The present invention relates to sulfonamides, pharmaceutical compns. containing them, and their use as antagonists of urotensin II for treating conditions associated with urotensin II imbalance.
 IT 693786-30-0P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (sulfonamides and pharmaceutical compns. containing them and uses for treating conditions associated with urotensin II imbalance)
 RN 693786-30-0 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-[3-[(3R)-1-methyl-3-pyrrolidinyl]oxy]-4-(trifluoromethyl)phenyl-2-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



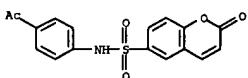
L4 ANSWER 10 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:128245 CA
 TITLE: Reactions with coumarin. VIII
 AUTHOR(S): Zeid, I. F.; Ismail, I. Imami; Abd El-Aleem, A. H.; Ebead, A. M.
 CORPORATE SOURCE: Menoufia University and National Research Centre, Cairo, Egypt
 SOURCE: Afinidad (2003), 60(505), 295-299
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos e Ingenieros del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:128245
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A series of thiadiazole and selenadiazole derivs. was synthesized via oxidative cyclization of some semicarbazone derivs. of the types I. The later compds. were formed via reaction of coumarin-6-sulfonyl chloride I with m-, p-aminocetophenone and/or o- and p-hydroxycetophenone to give coumarin-6-sulfonamides II or the esters. Condensation of II and the esters with semicarbazide hydrochloride afforded the semicarbazones of type I. Oxidative cyclization of I with thionyl chloride led to the formation of the thiadiazole derivs. III. On the other hand, oxidative cyclization of I with selenium dioxide led to the formation of the corresponding selenadiazole derivs.

IT 173975-91-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of thiadiazole and selenadiazole coumarin derivs. from coumarin-6-sulfonyl chloride via oxidative cyclization and condensation)

RN 173975-91-2 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-(4-acetylphenyl)-2-oxo- (9CI) (CA INDEX NAME)



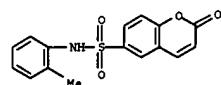
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:391166 CA
 TITLE: Product class 4: benzopyranones and benzopyranthiones
 AUTHOR(S): Williams, A. C.; Camp, N.
 CORPORATE SOURCE: Germany
 SOURCE: Science of Synthesis (2003), 14, 347-638
 CODEN: SSXY9
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal/ General Review
 LANGUAGE: English

AB A review. Methods for preparing 2H-1-benzopyran-2-ones, 4H-1-benzopyran-4-ones, 1H-2-benzopyran-1-ones, 6H-dibenzo[b,d]pyran-6-ones, 9H-xanthenones and their corresponding thione analogs as well as 3H-2-benzopyran-3-ones are surveyed. Synthetic methods include ring closure, ring transformation, aromatization and substituent modification reactions.

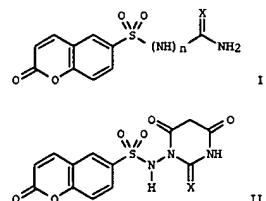
IT 84015-73-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (review of preparation of benzopyranones and benzopyranthiones via ring closure, ring transformations, aromatization and substituent modifications)

RN 84015-73-6 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-(2-methylphenyl)-2-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1083 THERE ARE 1083 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:111363 CA
 TITLE: Reactions with coumarin. VII
 AUTHOR(S): Zeid, I. F.; Ismail, I. Imami; Abd El-Aleem, A. H.; Ebead, A. M.
 CORPORATE SOURCE: National Research Centre, Menoufia University, Cairo, Egypt
 SOURCE: Afinidad (2003), 60(504), 215-219
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:111363
 GI

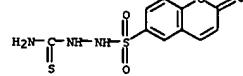


AB Coumarin-6-sulfonamides I (n = 1, X = NH; n = 2, X = O, S) were synthesized by reactions of coumarin-6-sulfonyl chloride with semicarbazide, thiourea, carbazole and guanidine, resp.. The subsequent treatment of I with di-Et malonate, acetylacetone, and Et acetoacetate gave the corresponding pyrimidine derivs., e.g. II (X = O, S) from the reaction with di-Et malonate.

IT 165073-93-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of (oxabenzopyranyl)sulfonylaminosubstituted pyrimidines via

cyclocondensation of coumarin sulfonamides with active methylene compds.)

RN 165073-93-8 CA
 CN 2H-1-Benzopyran-6-sulfonic acid, 2-oxo-, 2-(aminothioxomethyl)hydrazide (9CI) (CA INDEX NAME)

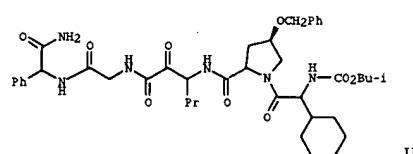
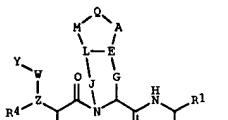


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 11 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 58 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 139:381756 CA
TITLE: Preparation of peptides as NS3-serine protease
inhibitors of hepatitis C virus
INVENTOR(S): Saksena, Anil K.; Girijavallabhan, Viyyoor Moopil;
Lovey, Raymond G.; Jao, Edwin; Bennett, Frank;
McCormick, Jinping L.; Wang, Haiyan; Pike, Russell E.;
Bogen, Stephane L.; Chan, Tin-Yau; Liu, Yi-tsung; Zhu,
Zhaoning; Njoroge, F.; George, Arasappan; Ashok;
Parekh, Tejal; Ganguly, Ashit K.; Chen, Kevin X.;
Venkatraman, Srikanth; Vaccaro, Henry A.; Pinto,
Patrick A.; Santhanam, Bama; Kemp, Scott; Jeffrey;
Levy, Odile Esther; Lim-Wilby, Marguerite; Tamura,
Susan Y.; Wu, Wanli; Hendrata, Siska; Huang, Yuhua
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 629 pp.
CODEN: USXKCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003216325	A1	20031120	US 2001-908955	20010719
US 2004254117	A9	20041216		
ZA 2002010312	A	20040329	ZA 2002-10312	20021219
PRIORITY APPLN. INFO.:			US 2000-220108P	P 20000721
OTHER SOURCE(S):		MARPAT 139:381756 GI		



L4 ANSWER 12 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 12 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)

AB The invention discloses novel peptides I [Y is alkyl, alkylaryl, heteroalkyl, heteroaryl, aryl- or alkylheteroaryl, cycloalkyl, alkylxy, alkylaryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, alkylamino, arylamino, alkylarylamino, arylamino, heteroarylamino, cycloalkylamino, or heterocycloalkylamino; R1 is acyl; Z is O, N, CH or CR; R, R2-R4 are H, alkyl, alkenyl, cycloalkyl, heterocycloalkyl, alkoxyl, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halo, (cycloalkyl)alkyl, or (heterocycloalkyl)alkyl; W, Q, G, J, L, M independently may be present or absent; W is CO, CS, C(:N-CN), or SO2; Q is CH, N, P, alkylidene, O, NR, S, or SO2; A is O, CH, alkylidene, NR, S, SO2, or a bond; E is CH, N, alkylidene, or a double bond; G is alkylidene; J is alkylidene, SO2, NH, NR, or O; L is CH, CR, O, S, or NR; M is O, NR, S, SO2, or alkylidene (with provisos) which have HCV protease inhibitory activity as well as methods for preparing such compds. In another embodiment, the invention discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders associated with the HCV protease. Thus, peptide II was prepared by the solid-phase method and showed Ki = 1-100 nM (category A) in the HCV continuous assay.

IT 394723-06-9P

RL: IMP (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

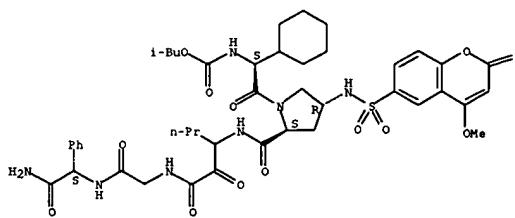
(preparation of peptides as NS3-serine protease inhibitors of hepatitis C virus)

RN 394723-06-9 CA

CN Glycinamide, (2S)-2-cyclohexyl-N-[(2-methylpropoxy)carbonyl]glycyl-(4R)-4-[(4-methoxy-2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino-L-prolyl-3-amino-2-oxohexanoylglycyl-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

=0

14 ANSWER 13 OF 58 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 139-374172 CA
 TITLE: Study on the interaction between SU-118 and bovine
 serum albumin
 AUTHOR(S): Wang, Yu-Chun; Zhong, Wen-Ying; Yu, Jun-Sheng; Ni,
 Kun-Yi; Tu, Shu-Zi; Liang, Ying-Qiu
 CORPORATE SOURCE: Department of Analytical Chemistry, China
 Pharmaceutical University, Nanjing, 210009, Peop. Rep.
 China
 SOURCE: Nanjing Daxue Xuebao, Ziran Kexue (2003), 39(2),
 289-293
 CODEN: NCHPAZ; ISSN: 0469-5097
 PUBLISHER: Nanjing Daxue Xuebao Bianjibu
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 Note: The interaction between a new heparin-binding agent SU-118 and BSA were

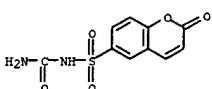
AB The interaction between a new hypoglycemic agent SU-118 and BSA were studied using absorption and fluorescence spectrophotometry. Hypochromicity and an isosbestic point at 330 nm were observed in the absorption spectra of BSA in the presence of SU-118. It was found that the fluorescence intensity of BSA was efficiently quenched when SU-118 was added to the BSA solution. These results showed that SU-118 could interact with BSA to form a complex in solution. The fluorescence quenching data could be fitted to the Stern-Volmer equation and gave a Stern-Volmer quenching constant of 1.25.

be fitted to the Stern-Volmer equation and gave a Stern-Volmer quenching constant of $8.63 \times 104 \text{ L/mol}$ (20°). The dependence of the Stern-Volmer consts. on the temperature indicated that the mechanism of the quenching process was static. The thermodynamic parameters were estimated according to such temperature dependence. The interaction was exothermic with a Van't Hoff enthalpy of -30.09 kJ/mol . The neg. values of the enthalpy and entropy changes indicated that van der Waals force and hydrogen bonding were the predominant intermolecular forces stabilizing the SU-118-BSA complex. In addition, binding consts. were obtained by two methods: $1.32 \times 104 \text{ L/mol}$ for absorption titration and $8.63 \times 104 \text{ L/mol}$ for fluorescence titration. They were comparable regarding the difference between the two methods. Finally, the conformational change of BSA due to the addition of SU-118 was discussed by synchronous fluorometry.

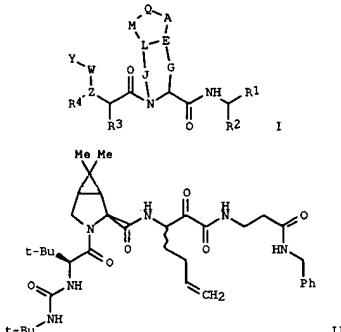
SU-118 was discussed
IT 165073-91-6D, derivs.

RL: PKT (Pharmacokinetics); BIOL (Biological study)

RN: 16503-91-6 CA
(study on the interaction between SU-118 and bovine serum albumin)



L4 ANSWER 14 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



AB The invention discloses novel peptides I [Y is alkyl, alkylaryl, heteroalkyl, heteroaryl, aryl- or alkylheteroaryl, cycloalkyl, alkylalkoxy, alkylaryloxy, arylalkoxy, heteroarylalkoxy, heterocycloalkylalkoxy, cycloalkylalkoxy, alkylamino, arylamino, alkylarylamino, arylamino, heteroarylamino, cycloalkylamino, or heterocycloalkylamino; R1 is acyl; 2 is selected from O, N, CR1 or CR2, R2-4 are H, alkyl, alkenyl, cycloalkyl, heterocycloalkyl, alkoxy, arylalkoxy, alkylthio, alkylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halo, (cycloalkyl)alkyl, or (heterocycloalkyl)alkyl; W, Q, G, J, L, M independently may be present or absent; W is CO, CS, C(=N-CH3), or SO2; Q is CH, N, P, alkylidene, O, NR, S, or SO2; A is O, CH, alkylidene, NR, S, SO2, or a bond; E is CH, N, alkylidene, or a double bond; G is alkylidene; J is alkylidene, SO2, NH, NR, or O; L is CH, CR, O, S, or NR; M is O, NR, S, SO2, or alkylidene (with provisos) which have HCV protease inhibitory activity as well as methods for preparing such compds. In another embodiment, the invention discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders associated with the HCV protease. Thus, peptide II was prepared and showed $K_i = 1-100 \text{ nM}$ (category A) in the HCV continuous assay.

{ (4-methoxy-2-oxo-2-oxohexanoylglycyl-2-

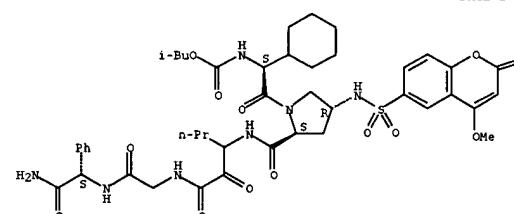
14 ANSWER 14 OF 58 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 139:149928 CA
 TITLE: Preparation of peptides as NS3-serine protease
 inhibitors of hepatitis C virus
 INVENTOR(S): Saksena, Anil K.; Girijavallabhan, Viyyoor M.; Lovey,
 Raymond G.; Jao, Edwin; Bennett, Frank; McCormick,
 Jinping L.; Wang, Haiyan; Pike, Russell E.; Bogen,
 Stephena L.; Chan, Tin-yau; Liu, Yi-tsung; Zhu,
 Zhaoning; Njoroge, George F.; Arasappan, Ashok;
 Parekh, Tejal; Ganguly, Ashit K.; Chen, Kevin X.;
 Venkatraman, Srikanth; Vaccaro, Henry A.; Pinto,
 Patrick A.; Santhanam, Bama; Kemp, Scott; Jeffrey;
 Levy, Odile Esther; Lim-Wilby, Marguerite; Tamara,
 Susan Y.; Wu, Wanli; Hendrata, Siska; Huang, Yuhua;
 Wong, Jessie K.; Nair, Latha G.
 PATENT ASSIGNEE(S): Schering Corporation, USA; Corvas International, Inc.
 SOURCE: Dendreon Corp.
 PCT Int. Appl., 633 pp.
 DOCUMENT TYPE: CODEN: PIXKD2
 LANGUAGE: Patent
 English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062265	A2	20030731	WO 2003-US1430	20030116
WO 2003062265	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, ES, FI, GB, GD, GE, GR, HR, RU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MK, MZ, NO, NZ, PH, PL, PT, RO, RU, SC, SE, SG, SK, SI, TJ, TM, TN, TR, TT, TZ, UZ, VC, VN, YU, ZA, ZM				
RW: GH, GM, KE, LS, MW, MY, SD, SI, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, ME, SN, TD, TG				
CA 2473032	AA	20030731	CA 2003-2473032	20030116
EP 1481000	A2	20041201	EP 2003-731956	20030116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, HU, IT, LI, LU, NL, SE, MC, PT, SI, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003060931	A	20050419	BR 2003-6931	20030116
PRIORITY APPLN. INFO.:			US 2002-52386	A 20020118
			WO 2003-US1430	W 20030116

OTHER SOURCE(S): MARPAT 139:149928

GI

L4 ANSWER 14 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



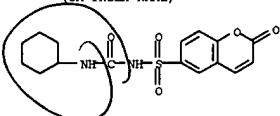
PAGE 1-B

L4 ANSWER 15 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 139:78889 CA
 TITLE: Synthesis and Bioactivity of Coumarin-6-sulfonylureas
 AUTHOR(S): Han, Ying; Tu, Shuzi; Zhou, Weifan; Wang, Qiujuan
 CORPORATE SOURCE: Department of Medicinal Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China
 SOURCE: Zhongguo Yaoxue Xuebao (2002), 33(2), 93-97
 PUBLISHER: Zhongguo Yaoxue Daxue
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 OTHER SOURCE(S): CASREACT 139:78869

AB Twenty-one coumarin-6-sulfonylureas (N-[4-R1-7-R2-benzopyran-2(2H)-one-6-sulfonyl]-N'-R3-ureas; R1 and/or R2 = H or methyl; R3 = cyclohexyl, allyl, Pr, heptyl, iso-Pr, Bu, or isobutyl) were synthesized to search for new antidiabetic drugs. Sulfonylureas functional groups were introduced into the structure of coumarin, and the hypoglycemic activity of the target compds. was measured. Their structures were identified by IR, ¹H NMR, and MS spectra. The pharmacol. study showed that compds. SU-1 (R1 = R2 = H, R3 = cyclohexyl), SU-8 (R1 = H, R2 = Me, R3 = cyclohexyl), SU-11 (R1 = H, R2 = Me, R3 = butyl), SU-12 (R1 = H, R2 = Me, R3 = heptyl), and SU-13 (R1 = H, R2 = Me, R3 = isopropyl) exhibited evident hypoglycemic activities (*P* < 0.01) at the dose of 50 mg kg⁻¹.

IT 553682-70-58
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis and bioactivity of coumarin-6-sulfonylureas)

RN 553682-70-5 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-[(cyclohexylamino)carbonyl]-2-oxo- (9CI) (CA INDEX NAME)



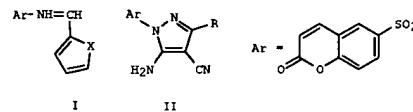
21

L4 ANSWER 17 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 136:167698 CA
 TITLE: Preparation of peptides as NS3-serine protease inhibitors of hepatitis C virus
 INVENTOR(S): Saksena, Anil K.; Girijavallabhan, Viyyoor Moopil; Lovey, Raymond G.; Jao, Edwin E.; Bennett, Frank; McCormick, Jinping L.; Wang, Haiyan; Pike, Russell E.; Bogen, Stephane L.; Chan, Tin-Yau; Liu, Yi-Tsung; Zhu, Zhaoning; Njoroge, F. George; Arasappan, Ashok; Parekh, Tejal N.; Ganguly, Ashit K.; Chen, Kevin X.; Venkatraman, Srikanth; Vaccaro, Henry A.; Pinto, Patrick A.; Santhanam, Bama; Wu, Wanli; Hendrata, Siska; Huang, Yuhua; Kemp, Scott Jeffrey; Levy, Odile Esther; Lim-Wilby, Marguerita; Tamura, Susan Y.; Scheriner Corporation, USA; Corvas International, Inc.
 PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 536 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008244	A2	20020131	WO 2001-US22678	20010719
WO 2002008244	A3	20030619		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UZ, VN, YU, ZA				
RW: GH, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2410662	AA	20020131	CA 2001-2410662	20010719
AU 2001076988	A5	20020205	AU 2001-76988	20010719
BR 2001102540	A	20030624	BR 2001-12540	20010719
EP 1385870	A2	20040204	EP 2001-954764	20010719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004504404	T2	20040212	JP 2002-51449	20010719
ZA 2002010312	A	20040329	ZA 2002-10312	20021219
NO 200300272	A	20030321	NO 2003-272	20030120
PRIORITY APPLN. INFO.:			US 2000-220108P	P 20000721
OTHER SOURCE(S):	MARPAT	136:167698	WO 2001-US22678	W 20010719

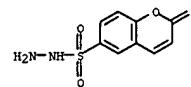
GI

L4 ANSWER 16 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 137:294847 CA
 TITLE: Reactions with coumarin. VI
 AUTHOR(S): Ismail, I.; Imam, El-Bary, H. Abd; El-Aleem, A. H. Abd; Hosni, A.
 CORPORATE SOURCE: National Research Centre, Cairo, Egypt
 SOURCE: Afinidad (2002), 59(498), 151-154
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:294847
 GI



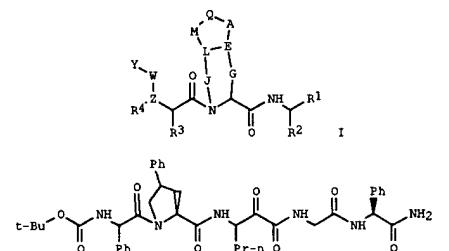
AB The present investigation is designed to study the reaction of some active methylene compds. with coumarin-6-sulfonyl hydrazones, I (X = O, S). The following active methylene compds. were used: malononitrile, Et₂ cyanoacetate, di-Et malonate and 2,4-pentanedione. It was found that, the active methylene compound is added to the double bond of the hydrazone to give an adduct, which cyclized directly to pyrazole or pyrazoline-5-one衍生物, e.g. II.

IT 112097-36-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and condensation reaction with thienaldehyde or furaldehyde)
 RN 112097-36-6 CA
 CN 2H-1-Benzopyran-6-sulfonic acid, 2-oxo-, hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



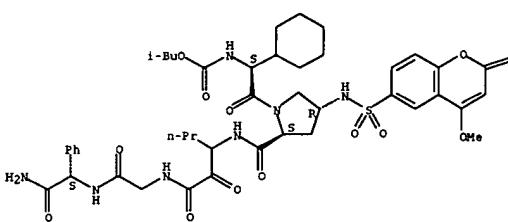
AB Peptides I were prepared wherein Y is alkyl, alkyl-aryl, heteroaryl, heteroalkyl, heterocarboxyl, aryl-heteroaryl, alkylheteroaryl, cycloalkyl, cycloalkoxy, alkylamino, arylamino, alkylarylamino, arylamino, heteroarylamino, cycloalkylamino and heterocycloalkylamino; R1 is acyl, borate; Z is selected from O, N, CH or CR; W, Q, G, J, L, M independently maybe present or absent; W is C=O, C=S, C(=N-CN), or SO; Q is CH, N, P, alkylidene, O, amine, S, or SO; A is O, CH, alkylidene, amine, S, SO or bond; E is CH, N, alkylidene, or double bond; G is alkylidene; J is alkylidene, SO, NH, NR; O is CH, alkylidene, O, S or NR; M is O, NR, S, SO, alkylidene; p is 0 to 6; and R4 are independently selected from the group consisting of H; alkyl; alkenyl; cycloalkyl; heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halogen; (cycloalkyl)alkyl and (heterocycloalkyl)alkyl, which have HCV protease inhibitory activity as well as methods for preparing such compds. In

another embodiment, the invention discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders associated with the HCV protease. Thus peptide II was prepared and tested as antiviral agent and NS3-serine protease inhibitors of hepatitis C virus with Ki ranges in category A = 1-100 nM; category B = 101-1,000 nM; category C > 1000 nM. Also disclosed is the use of I for the manufacture of a medicament for treating HCV, AIDS, and related disorders.

IT 394723-06-9P
 RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of peptides as NS3-serine protease inhibitors of hepatitis C virus)

RN 394723-06-9 CA
 CN Glycaminide, [(2S)-2-cyclohexyl-N-[(2-methylpropoxy)carbonyl]glycyl-(4R)-4-[(4-methoxy-2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino-L-prolyl-3-amino-2-oxohexanoylglycyl-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

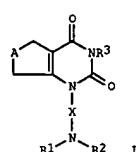
Absolute stereochemistry.



$\equiv 0$

14 ANSWER 18 OF 58 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 136:134774 CA
 TITLE: Preparation of fused amidokalkyluracils as
 poly(ADP-ribose) synthetase inhibitors
 INVENTOR(S): Haertter, Michael; Albrecht, Barbara; Gerisch, Michael
 Handke, Gabriele; Huetter, Joachim; Jensen, Axel;
 Krahn, Thomas; Mittendorff, Joachim; Oehme, Felix;
 Schlemmer, Karl-Heinz; Steinbagen, Henning
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 113 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:		KIND	DATE	APPLICATION NO.	DATE
WO 2002006247	A1	20020124	WO 2001-EP7670		20010705
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GE, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KR, KK, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MO, NZ, NO, NL, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BPF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
DE 10034801	A1	20020131	DE 2000-10034801		20000718
CA 2416036	AA	20020124	CA 2001-2416036		20010705
EP 1303497	A1	20030423	EP 2001-947443		20010705
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
US 2003222905	A1	20030130	US 2001-906296		20010716
US 6649618	B2	20031118	DE 2000-10034801	A	20000718
			WO 2001-EP7670	W	20010705
PRIORITY APPLN. INFO.:					
OTHER SOURCE(S):					



AB Title compds. [I] A = D, CH2D, DCH2, CH:CHCH2, CH2CH:CH, CH2CH2D, DCH2CH2D, CH2CH2CH2, D = CH2, O, S; X = (substituted) alkylene, cycloalkylene, R1 = H, (halogenated) alkyl, cycloalkyl; R2 = SO2R4, SO2NR5R6, COR7, CONNR8R9,

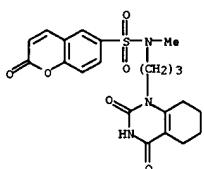
L4 ANSWER 18 OF 58 CA COPYRIGHT 2005 ACS ON STN (Continued)
 CO2R10; R4 = (substituted) alkyl, cycloalkyl; GE, E, R6 = (substituted) aryl, heterocyclic; G is absent or (substituted) aryl, heteroaryl; R5, E, R6 = H, (substituted) cycloalkyl, alkyl, aryl, heterocyclic; or R5R6 = (substituted) heterocyclic; R7 = (substituted) alkyl, cycloalkyl; GE (as above); R8, R9 = H, (substituted) alkyl, cycloalkyl; or R8R9 = (substituted) heteroaryl; R10 = (substituted) alkyl, cycloalkyl, aryl; or R12 = (substituted) mono- or bicyclic heterocyclic; R3 = H, alkoxycarbonyl, were prep'd. Thus, a mixt. of N-(3-aminopropyl)-N-benzyl-N'-methylamine and tetrahydro-4H-thiopyran-4-one in PMe was refluxed with camphorsulfonic acid followed by addn. of C1CONCO at room temp., to give 67% 1-[3-(benzyl)(methyl)aminopropyl]-1,5,7,8-tetrahydro-2H-thiopyran[4,3-d]pyrimidin-2,4(3H)-dione which was stirred with 2,2,2-trichloroethylchloroformate in MeCN for 30 min at room temp. to give 63% 2,2,2-trichloroethyl[2-(4-dioxo-3,4,7,8-tetrahydro-2H-thiopyran[4,3-d]pyrimidin-1(5H)-yl)propyl](methyl) carbamate. Tested I showed 50% protection of endothelial cells with EC50 = 0.05-0.05 μ M.

IT 390766-02-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);
In preparation of fused amidoalkyluracils as poly(ADP-ribosyl) synthetase

(preparation inhibitors)

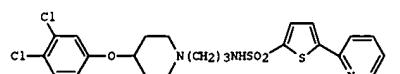
RN 390766-02-6 CA
CN 2H-1-Benzopyran-6-sulfonamide, N-(3-(3,4,5,6,7,8-hexahydro-2,4-dioxo-1(2H)-quinolin-1-yl)propyl)-N-methyl-3-oxo- (8CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

14 ANSWER 19 OF 58 CA COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 136-20021 CA
TITLE: Piperidine derivatives useful in the modulation of
CC532 activity
INVENTOR(S): Saengsae, Hiteshi; Springthorpe, Brian
PATENT ASSIGNEE(S): Astrazeneca AB, Sweden
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT INFORMATION		KIND	DATE	APPLICATION NO.	DATE
WO 2001092227		A1	20011206	WO 2001-SE1298	20010530
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GJ, HR, HU, ID, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LK, LV, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, US, UZ, VN, YU, ZA, ZW	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GE, LS, MW, MZ, SD, SL, SZ, TZ, UD, ZW	AT, BE, CH, CY, DE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BP, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SD, TG			
EP 1289956		A1	20030312	EP 2001-937121	20010530
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003535079		T2	20031125	JP 2002-500842	20010530
US 2003166652		A1	20030904	US 2002-296034	20021122
PRIORITY APPLN. INFO.:				GB 2000-13060	A 20000531
OTHER SOURCE(S):		MARPAT 136:20021			
				WO 2001-SE1298	W 20010530

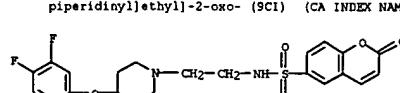


AB *Piperidines such as I were prepared for modulation of CCR3 activity (no data). Thus, I was prepared starting from 4-(3,4-dichlorophenoxy)piperidin-3-ol and react with 2-bromo-4-methyl-6-oxo-2,3-dihydro-1H-pyridine-1-carboxylic acid.*

IT and tert-Bu (3-bromopropyl) carbamate.
377740-48-2P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses) (minimize damage useful in the reduction of stress and

BN 377740-48-2 CA (piperidine derivs. useful in the modulation of CCR3 activi



L4 ANSWER 19 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 135:33634 CA
 TITLE: Fluorescence enhancement of coumarin-6-sulfonyl chloride amino acid derivatives in cyclodextrin media
 AUTHOR(S): Al-Kindy, Salma M. Z.; Suliman, Fakhr Eldin O.; Al-Hamdi, Abdalla A.
 CORPORATE SOURCE: Department of Chemistry, College of Science, Muscat, Oman
 SOURCE: Analytical Sciences (2001), 17(4), 539-543
 CODEN: ANSCEN; ISSN: 0910-6340
 PUBLISHER: Japan Society for Analytical Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English

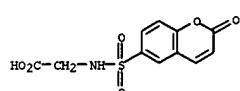
AB Coumarin-6-sulfonyl (6-CS) amino acid derivs. form inclusion complexes with α - and β -cyclodextrins (CD) in aqueous solution. The stoichiometry of the inclusion complex and the equilibrium constant were investigated. Using a fluorescence technique and sialine- β -CD as a model, a 1:2 guest-host complex was established, and $K = 4.7 \times 10^5$ mol⁻² l² was obtained. Fluorescence enhancement was observed for all

derivs. studied, with glycine exhibiting a greater enhancement, and tyrosine showing the least. The stability of the inclusion complex was found to depend on the resp. sizes of the guest-host complex and their interaction.

IT 343578-60-9
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (fluorescence enhancement of coumarin-6-sulfonyl chloride amino acid derivs. in cyclodextrin media)

RN 343578-60-9 CA
 CN Glycine, N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-, compd. with α -cyclodextrin (9CI) (CA INDEX NAME)

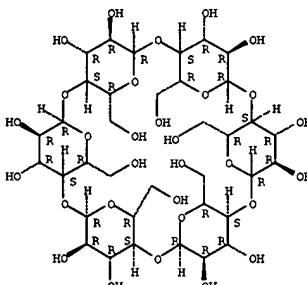
CM 1
 CRN 123090-34-6
 CMF C11 H9 N O6 S



CM 2
 CRN 10016-20-3
 CMF C36 H60 O30

Absolute stereochemistry.

L4 ANSWER 20 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)

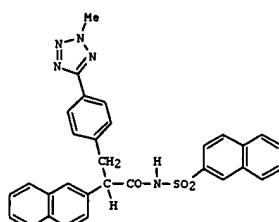


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 134:280845 CA
 TITLE: Preparation of acylsulfonamide derivatives as chymase inhibitors
 INVENTOR(S): Aoyama, Yukio; Seki, Maki; Masuda, Hirokazu; Usui, Yoshihiro; Abe, Yuji; Shimada, Mayumi; Yamamoto, Mutsuya
 PATENT ASSIGNEE(S): Mitsubishi Chemical Corporation, Japan
 SOURCE: PCT Int. Appl., 259 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

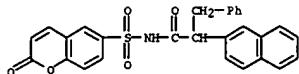
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001023349	A1	20010405	WO 2000-JF6695	20000928
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, C2, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KR, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	JP 1999-278374	A	19990930	
		JP 1999-278375	A	19990930
		JP 1999-278377	A	19990930
		JP 1999-278378	A	19990930
		JP 1999-278379	A	19990930

PRIORITY APPLN. INFO.: MARPAT 134:280845
 GI



AB The title compds. R1CH[(CH2R2)n](NH)mCONHSO2R3 [R1 = (un)substituted heterocyclyl, etc.; n = 1-4; m = 0 or 1; R2 = (un)substituted naphthyl, heterocyclyl; when R2 is (un)substituted aryl, R3 is (un)substituted naphthyl, heterocyclyl; when R2 is (un)substituted heterocyclyl, R3 is (un)substituted Ph, naphthyl, heterocyclyl] are prepared. The title compds. are useful as remedies for hypertension. The title compound I in vitro

L4 ANSWER 21 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 332364-23-59
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of acylsulfonamide derivs. as chymase inhibitors)
 RN 332364-23-5 CA
 CN 2-Naphthalenesacetamide, N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-a-(phenylmethyl)- (9CI) (CA INDEX NAME)

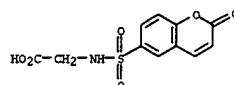


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 58 CA COPYRIGHT 2005 ACS on STN
 134:178501 CA
 TITLE: Synthesis of N-(Cumarinsulfonyl)thiohydantoin and -hydantoin derivatives
 AUTHOR(S): Mandour, A. H.; Kassem, E. M.
 CORPORATE SOURCE: Dep. of Nat. Products and Microbes, Natl. Res. Cent., Cairo, Egypt
 SOURCE: Afinidad (2000), 57(489), 344-348
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:178501

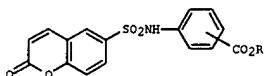
AB Acylation of glycine with 6-cumarinylsulfonyl chloride or (6-nitro-3-cumarinyl)sulfonyl chloride gave N-[(cumarinyl)sulfonyl]glycine derivs. Treatment of the latter compds. with ammonium thiocyanate and acetic anhydride afforded N-[(cumarinyl)sulfonyl]-3-thiohydantoin. The key intermediates thus prepared were 1-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-2-thioxo-4-imidazolidinone and 1-[(6-nitro-2-oxo-2H-1-benzopyran-3-yl)sulfonyl]-2-thioxo-4-imidazolidinone. Hydrolysis of these intermediates using aqueous chloroacetic acid gave N-[(cumarinyl)sulfonyl]hydantoins. Thus, the above (thioxo)imidazolidinones were transformed into the resp. diones, 1-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-2,4-imidazolidinedione and 1-[(6-nitro-2-oxo-2H-1-benzopyran-3-yl)sulfonyl]-2,4-imidazolidinedione. Condensation of N-[(cumarinyl)sulfonyl]-3-thiohydantoin and N-[(cumarinyl)sulfonyl]-3-hydantoins with (arylidene)malononitrile in piperidine gave the corresponding pyrano[2,3-d]imidazolidinones. Also, the condensation of the above intermediates with aromatic aldehyde led to the formation of 5(arylidene)thiohydantoins and 5(arylidene)hydantoins. The condensation of the latter compds. with malononitrile was also carried out.

IT 123090-34-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of [(cumarinyl)sulfonyl]hydantoin and [(cumarinyl)sulfonyl]thiohydantoin derivs.)
 RN 123090-34-6 CA
 CN Glycine, N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 58 CA COPYRIGHT 2005 ACS on STN
 133:281735 CA
 TITLE: Reactions with coumarin. V.
 AUTHOR(S): Ismail, Imam; El-Aleem, A. H. Abd; El-Bary, H. Abd; Hosny, A. M.
 CORPORATE SOURCE: National Research Centre, Menoufia University, Cairo, Egypt
 SOURCE: Afinidad (2000), 57(487), 217-221
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

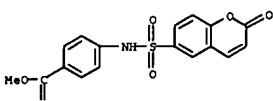


AB Several coumarin-6-sulfonamides (I; R = H, Me) substituent attached ortho, meta, or para) were prepared by reaction of coumarin-6-sulfonyl chloride with different aromatic amino compds. Imidazole derivs. were formed by reaction of I (R = Me) with ethylenediamine. Reaction of I (R = Me) with hydrazine hydrate afforded acid hydrazides. An oxadiazole was synthesized by reaction of a hydrazide with BzCl to give a diacylhydrazine, which cyclized to the oxadiazole derivative by heating with POC13. A thiadiazole derivative was synthesized by reaction of a hydrazide with Ph isothiocyanate,

followed by treatment with POC13. Reaction of I (R = Me) with excess hydrazine hydrate (1:5 mol) proceeded with o-pyrone ring fission to give the corresponding cinnamyl hydrazide derivs. Condensation of one of these with furfural gave the hydrazone, which cyclized to the oxadiazole on treatment with acetic anhydride.

IT 113789-63-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and conversion to hydrazides and imidazole derivs.)

RN 113789-63-2 CA
 CN Benzoic acid, 4-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

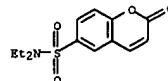


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 58 CA COPYRIGHT 2005 ACS on STN
 128:321534 CA
 TITLE: Reactions with coumarin: synthesis and reactions of coumarin sulfonamides
 AUTHOR(S): Abd-El-Bary, Hamed M.
 CORPORATE SOURCE: Chem. Dep., Faculty Science, Menoufia Univ., Menoufia, Egypt
 SOURCE: Afinidad (1998), 55(473), 67-71
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Coumarin-6-sulfonyl chloride was animated with different secondary amines to give the sulfonamides. Treatment of these with hydrazine under controlled conditions effected ring-opening of the lactone ring to afford the corresponding o-hydroxycinnamyl hydrazides which were converted to hydrazones by reaction with various aldehydes. The hydrazones were cyclized using acetic anhydride to yield oxadiazolines. Reaction of the hydrazides with 4-tolyl chloride afforded the corresponding N-tolyl derivs. which cyclized with POC13 to the corresponding 1,3,4-oxadiazole derivs. Thiosemicarbazide derivs. were obtained by treatment of the hydrazides with PBNCS. Cyclization of the thiosemicarbazides using POC13 afforded the corresponding 1,3,4-thiadiazoles.

IT 118428-90-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactions of coumarinsulfonamides)

RN 118428-90-3 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N,N-diethyl-2-oxo- (9CI) (CA INDEX NAME)



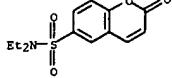
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1271176015 CA
 TITLE: Reactions with coumarin: synthesis and reactions of coumarinsulfonamides
 AUTHOR(S): Abdel-Bary, Hamed M.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Menoufia University, Menoufia, Egypt
 SOURCE: Mansoura Science Bulletin, A: Chemistry (1997), 24(1, Suppl. 1), 161-170
 CODEN: MSLCF4 ISSN: 1110-4562
 PUBLISHER: Mansoura University
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Coumarin-6-sulfonyl chloride was amidated with different secondary amines to give coumarin-6-sulfonamides. The latter with hydrazine under controlled conditions effected ring-opening of the lactone ring to afford the corresponding o-hydroxycinnamoyl hydrazides. Hydrazones were obtained by condensation of the latter with aldehydes. Some reactions of the hydrazones or hydrazides were examined

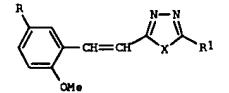
IT 118428-90-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactions of coumarinsulfonamides)

RN 118428-90-3 CA

CN ZH-1-Benzopyran-6-sulfonamide, N,N-diethyl-2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 26 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 126225111 CA
 TITLE: Synthesis and biological evaluation of 1,2,4-triazoles, 1,3,4-oxadiazoles, and 1,3,4-thiadiazoles
 AUTHOR(S): Mandour, A. H.; Ahmed, Kh. M.; Mohamed, T. K.; El-Bazza, Z. E.
 CORPORATE SOURCE: National Res. Centre, Cairo, Egypt
 SOURCE: Egyptian Journal of Pharmaceutical Sciences (1996), 37(1-6), 71-84
 CODEN: EJPSCZ ISSN: 0301-5068
 PUBLISHER: National Information and Documentation Centre
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



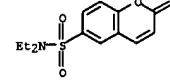
AB Alkaline hydrolysis, with di-Me sulfate and potassium hydroxide, of 6-substituted coumarins yielded 2-methoxycinnamic acids, which were converted to acid chlorides and then to (2-methoxycinnamoyl)thiosemicarbazides. Cyclization of the thiosemicarbazides, using sodium hydroxide, yielded triazoles I (R = NO2, Et2NSO2, piperidinsulfonyl, morpholinosulfonyl; R1 = SH; X = NH). Cyclodehydration of the thiosemicarbazides, using orthophosphoric acid or dicyclohexylcarbodiimide, led to thiadiazoles and oxadiazoles (I; same R, R1 = NH2; X = S, O). The antimicrobial and antiaflatoxigenic activities of I were evaluated.

IT 118428-90-3, 2H-1-Benzopyran-6-sulfonamide, N,N-diethyl-2-oxo- (hydrolysis-methylation of)

RL: RCT (Reactant); RACT (Reactant or reagent)

RN 118428-90-3 CA

CN 2H-1-Benzopyran-6-sulfonamide, N,N-diethyl-2-oxo- (9CI) (CA INDEX NAME)



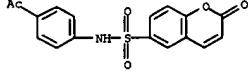
L4 ANSWER 27 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1241284113 CA
 TITLE: Synthesis, antimicrobial and antiaflatoxigenic activities of new coumarin derivatives
 AUTHOR(S): Mandour, A. H.; Ahmed, Kh. M.; Nassar, M. I.; El-Bazza, Z. E.
 CORPORATE SOURCE: National Research Centre, Cairo, Egypt
 SOURCE: Egyptian Journal of Pharmaceutical Sciences (1995), 36(1-6), 71-85
 CODEN: EJPSCZ ISSN: 0301-5068
 PUBLISHER: National Information and Documentation Centre
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Coumarin-6-sulfonyl chloride reacted with m- or p- aminoacetophenone to give sulfonamide derivs., which in turn were condensed with semicarbazide hydrochloride to give semicarbazone derivs. Also some sulfonamides reacted with thiosemicarbazide to give thiosemicarbazone derivs. Oxidative cyclization of semicarbazones or thiosemicarbazones using thionylchloride led to the formation of 4-substituted-1,2,3-thiadiazoles using selenium dioxide led to the formation of 4-substituted-1,2,3-selenadiazoles. Also, 4-[6-nitrocoumarin-3-sulfonamido-N-(m or p-phenylene)]-1,2,3-thiadiazoles and 1,2,3-selenadiazoles. The antimicrobial and antiaflatoxigenic activities of thiadiazoles and selenadiazoles were also investigated.

IT 173975-91-2P

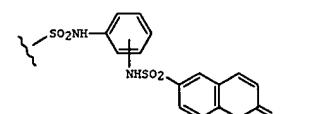
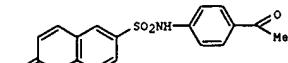
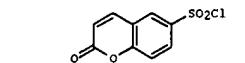
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (synthesis, antimicrobial and antiaflatoxigenic activities of new coumarin derivs.)

RN 173975-91-2 CA

CN 2H-1-Benzopyran-6-sulfonamide, N-(4-acetylphenyl)-2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 124175761 CA
 TITLE: Reaction with coumarin. IV
 AUTHOR(S): Abdel Bary, Hamed M.; Abdel Aleem, A. H.; Ismail, I. Imaa
 CORPORATE SOURCE: Menoufia University, Cairo, Egypt
 SOURCE: Afinidad (1995), 52(459), 344-6
 CODEN: AFINAE ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Coumarin-6-sulfonyl chloride (I) reacts with 4-aminobenzenesulfonamide or 2-amino-1,3,4-thiadiazole-5-sulfonamide at the sulfonamido amino group, leaving the amino group attached to the ring unreacted. Reaction of I with 4-aminocacetophenone, or with o-, m-, or p-phenylenediamine, gives corresponding mono- and bis-sulfonamides II or III, resp. II reacts with hydrazine hydrate or phenylhydrazine to yield hydrazones. Ortho-III is cyclized with aldehydes to give benzimidazole derivs.

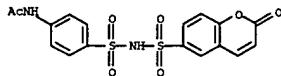
IT 173975-88-7P, 6-[[[4-(Acetamidophenyl)sulfonyl]amino]sulfonyl]coumarin

RL: SPN (Synthetic preparation); PREP (Preparation)
 (final product; reactions of coumarinsulfonyl chloride with amines and sulfonamides, and derived products)

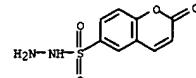
RN 173975-88-7 CA

CN Acetamide, N-[4-[[[2-oxo-2H-1-benzopyran-6-yl]sulfonyl]amino]sulfonyl]phenyl- (9CI) (CA INDEX NAME)

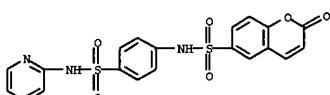
L4 ANSWER 28 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



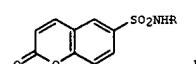
L4 ANSWER 29 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 123:143595 CA
 TITLE: Reactions with coumarin
 AUTHOR(S): El-Aleem, A. H. Abd El-Bary, H. Abd Ismail, I. Imam, El-Bawomy, G. M.
 CORPORATE SOURCE: Faculty Science, Menoufia University, Egypt
 SOURCE: Modelling, Measurement & Control, C: Energetics, Chemistry, Earth, Environmental & Biomedical Problems (1994), 46(3), 17-23
 CODEN: MMCPES; ISSN: 1259-5977
 PUBLISHER: Association for the Advancement of Modelling and Simulation Techniques in Enterprises
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Some reactions of coumarin-6-sulfonyl chloride (I) with hydrazines or acid hydrazides were investigated. E.g., reaction of I with hydrazine hydrate gave the hydrazino derivative, which reacted with aldehydes or ketones to yield hydrazone.
 IT 112097-36-6P, 2H-1-Benzopyran-6-sulfonic acid, 2-oxo-, hydrazide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactions of)
 RN 112097-36-6 CA
 CN 2H-1-Benzopyran-6-sulfonic acid, 2-oxo-, hydrazide (9CI) (CA INDEX NAME)



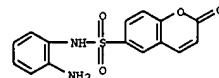
L4 ANSWER 30 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 123:83157 CA
 TITLE: Reactions with coumarin. III
 AUTHOR(S): Ismail, I. Imam; El-Sakka, I. A.; Abd El-Aleem, A. H.
 CORPORATE SOURCE: Natl. Res. Cent., Cairo, Egypt
 SOURCE: Afinidad (1995), 52(456), 133-6
 CODEN: AFINAE; ISSN: 0001-9704
 PUBLISHER: Asociacion de Quimicos del Instituto Quimico de Sarria
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Various coumarin-6-sulfonic acid esters are prepared through reaction of coumarin-6-sulfonyl chloride (I) with some phenolic compds. The reaction of 2-formylphenyl coumarin-6-sulfonate with primary amines led to the Schiff's bases. Aceturic or hippuric acid reacts with 4-formylphenyl coumarin-6-sulfonate to give oxazolone derivs. I reacts with some sulfonamides yielding coumarin-6-sulfonamide derivs. Coumarin-6-sulfonylurea derivs. were also prepared
 IT 165073-87-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of coumarinsulfonates and -sulfonamides)
 RN 165073-87-0 CA
 CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo-N-[4-[(2-pyridinylamino)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



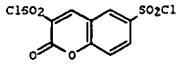
L4 ANSWER 31 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 123:83153 CA
 TITLE: Reactions with coumarin. II
 AUTHOR(S): Abd El-Bary, H.; Abd El-Aleem, A. H.; Ismail, I. Imam; El-Bawomy, G. M.
 CORPORATE SOURCE: Fac. Sci., Menoufia Univ., Egypt
 SOURCE: Modelling, Measurement & Control, C: Energetics, Chemistry, Earth, Environmental & Biomedical Problems (1995), 47(1), 43-8
 CODEN: MMCPES; ISSN: 1259-5977
 PUBLISHER: Association for the Advancement of Modelling and Simulation Techniques in Enterprises
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Coumarin-6-sulfonyl chloride reacted with o-, m-, p-phenylenediamine to give the sulfonamides I (R = 2-, 3-, 4-H₂NCH₂H₄). Phenylisothiocyanate or phenylisocyanate reacted with I yielding the urea derivs. Condensation of I with acetaldehyde or acetophenone gave the imines. The sulfonic acid esters were formed through condensation of coumarin-6-sulfonyl chloride with phenolic derivs.
 IT 159018-35-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reactions of coumarinsulfonamide derivs.)
 RN 159018-35-6 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-(2-aminophenyl)-2-oxo- (9CI) (CA INDEX NAME)

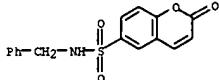


L4 ANSWER 32 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 12355653 CA
 TITLE: Reactions with coumarin-3,6-disulfonyl chloride
 AUTHOR(S): Abd El-Aleem, Abd El-Aleem Hassan
 CORPORATE SOURCE: Fac. Sci., Menoufia Univ., Egypt
 SOURCE: Modelling, Measurement & Control, C: Energetics, Chemistry, Earth, Environmental & Biomedical Problems (1995), 47(1), 49-54
 CODEN: MMECF5 ISSN: 1259-5977
 PUBLISHER: Association for the Advancement of Modelling and Simulation Techniques in Enterprises
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

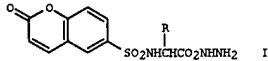


I

AB The reaction between coumarin-3,6-disulfonyl chloride (I) and amino compds. is investigated. The acid chloride reacts with aliphatic amines such as Et amine, ethanolamine, ethylenediamine or benzylamine to give the corresponding coumarin-6-sulfonamide derivs. While its reaction with secondary amines, aromatic amines or acid hydrazine gives the corresponding coumarin-3,6-disulfonamides. The reaction with hydrazine hydrate gives coumarin-6-sulfonylhydrazide or coumarin-3,6-disulfonylhydrazide, depends on the reaction conditions.
 IT 84015-70-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (reactions of coumarin-disulfonyl chloride)
 RN 84015-70-3 CA
 CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

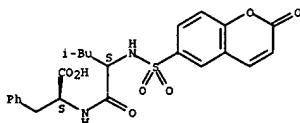


L4 ANSWER 34 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 122281071 CA
 TITLE: Synthesis of some coumarin-6-sulfonyl-N-amino acids and evaluation of some of their antimicrobial activity
 AUTHOR(S): Shalaby, A. M.; Mandour, A. H.; Farrag, H. A.
 CORPORATE SOURCE: National Research Centre, Cairo, Egypt
 SOURCE: Bulletin of the National Research Centre (Egypt) (1994), 19(2), 97-106
 CODEN: BNRCET
 PUBLISHER: National Information and Documentation Centre
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

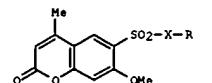


AB The reaction of 6-coumarinsulfonyl chloride with amino acid esters gave N-[(coumarinyl)sulfonyl]glycine derivs. that were converted to the corresponding N-[(coumarinyl)sulfonyl]glycine hydrazides I (R = alkyl, benzyl, etc.). The antimicrobial activity of N-[(coumarinyl)sulfonyl]glycine hydrazide s and preparation of N-[(coumarinyl)sulfonyl]dipeptides was reported.
 IT 160315-85-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of N-[(coumarinyl)sulfonyl]dipeptide derivative bactericide fungicide)
 RN 160315-85-5 CA
 CN L-Phenylalanine, N-[N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-L-leucyl]- (9CI) (CA INDEX NAME)

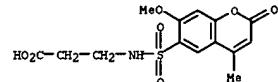
Absolute stereochemistry.



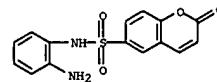
L4 ANSWER 33 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1222161309 CA
 TITLE: Synthesis and antimicrobial activity of some new 7-methoxy-4-methylcoumarin-6-sulfonylamino acid derivative
 AUTHOR(S): Ibrahim, T. M.; Ahmed, F. S. M.; Shedad, S. A.
 CORPORATE SOURCE: Faculty Science, Al-Azhar University, Nasr, Egypt
 SOURCE: Proceedings of the Indian National Science Academy, Part A: Physical Sciences (1994), 60(2), 433-9
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



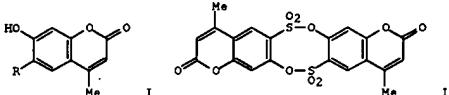
AB Title compds. I [X = amino acid, dipeptide; R = OH, OMe, NH2NH2] were prepared from the sulfonyl chloride and amino acid, amino ester, or dipeptide. The amino derivs., but not the peptide derivs., have bactericidal activity.
 IT 161255-84-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and antimicrobial activity of some new methoxy(methyl)coumarinsulfonylaminocoumarin derivs.)
 RN 161255-84-1 CA
 CN β -Alanine, N-[(7-methoxy-4-methyl-2-oxo-2H-1-benzopyran-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 35 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 121280504 CA
 TITLE: Reactions with coumarin. II
 AUTHOR(S): Abd El-Bary, H.; Abd El-Aleem, A. H.; Ismail, I.; Imam, El-Bayaamy, G. M.
 CORPORATE SOURCE: Fac. Sci., Menoufia Univ., Egypt
 SOURCE: Afinidad (1994), 51(452), 311-14
 CODEN: AFINAE; ISSN: 0001-9704
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Coumarin-6-sulfonyl chloride (I) reacted with o-, m-, and p-phenylenediamines to give the sulfonamides. Ph isocyanate or Ph isothiocyanate reacted with the sulfonamides yielding urea derivs. Condensation of the sulfonamides with acetaldehyde or acetophenone gave imines. Sulfonic acid esters were formed through condensation of I with phenolic derivs.
 IT 159018-35-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of coumarin derivs.)
 RN 159018-35-6 CA
 CN 2H-1-Benzopyran-6-sulfonamide, N-(2-aminophenyl)-2-oxo- (9CI) (CA INDEX NAME)



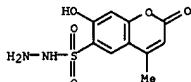
L4 ANSWER 36 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 121:9227 CA
 TITLE: Coumarin derivatives (part II). Synthesis and antimicrobial activity of certain sulfonamide, sulfonylhydrazine and sulfonyl azide derivatives of 4-methyl-7-hydroxycoumarin
 AUTHOR(S): Badran, M. M.; Ismail, M. Abdel Hamid; Ismail, M. Mohsen; Abdel-Hakeem, M.
 CORPORATE SOURCE: Fac. Pharm., Cairo Univ., Cairo, Egypt
 SOURCE: Egyptian Journal of Pharmaceutical Sciences (1992), 33(5-6), 1081-98
 CODEN: EJPSSZ; ISSN: 0301-5068
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



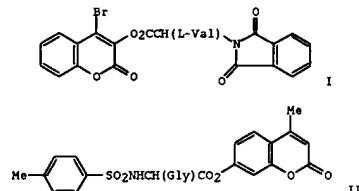
AB The title coumarin derivs. were prepared starting from coumarin derivative I (R = SO₂Cl) which was treated with hydrazine to give I (R = SO₂NHNH₂). Substitution of the latter with R'COCl (R₁ = heterocycl), diazotization by HNO₂, condensation with MeCOCH₂CO₂ (R₂ = heterocycl), and heating gave the corresponding coumarin derivs. and a dimer. Addnl. obtained was bisbenzopyranodioxadithiocin derivative II.

IT 112097-38-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and substitution reactions of)

RN 112097-38-8 CA
 CN 2H-1-Benzopyran-6-sulfonic acid, 7-hydroxy-4-methyl-2-oxo-, hydrazide (9CI) (CA INDEX NAME)

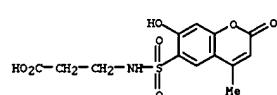


L4 ANSWER 37 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 120:54420 CA
 TITLE: Studies on the structure-activity relationship of some new hydroxy coumarin derivatives
 AUTHOR(S): Ibrahim, Tarek M.; El-Gazzar, Mohamed A.; El-Naggar, Ahmed M.; Shedad, Saeid A.
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt
 SOURCE: Proceedings of the Indian National Science Academy, Part A: Physical Sciences (1993), 59(2), 189-95
 CODEN: PIPSBZ; ISSN: 0370-0046
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



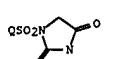
AB Synthesis of phthalimido- or tosylamino coumarin derivs., e.g., I, II, and N-(7-hydroxy-4-Me coumarin-6-sulfonyl)amino acids are described. Seven of these compds possess specific antimicrobial activities.

IT 152061-80-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and bactericidal activity of)
 RN 152061-80-8 CA
 CN β -Alanine, N-[(7-hydroxy-4-methyl-2-oxo-2H-1-benzopyran-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 38 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 114:6501 CA
 TITLE: Preparation of heterocyclsulfonylhydantoins as aldose reductase inhibitors
 INVENTOR(S): Mochida, Ei; Murakami, Kunihiro; Kato, Kazuo; Kato, Katsuaki; Okuda, Jun; Miwa, Ichitomo
 PATENT ASSIGNEE(S): Mochida Pharmaceutical Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 72 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 355827	A2	19900228	EP 1989-115635	19890824
EP 355827	A3	19900321		
EP 355827	B1	19970102		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4914099	A	19900403	US 1988-235557	19880824
WO 9002126	A1	19900308	WO 1989-JP851	19890822
W: AU, DK, FI, NO				
RU: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8940647	A1	19900323	AU 1989-40647	19890822
AU 623676	B2	19920521		
CA 1338866	A1	19970121	CA 1989-609100	19890823
JP 04128266	A2	19920428	JP 1989-217697	19890824
JP 06015539	B4	19940302		
AT 147073	E	19970115	AT 1989-115635	19890824
ES 2098222	T3	19970501	ES 1989-115635	19890824
US 5004751	A	19910402	US 1989-426021	19891024
NO 9001789	A	19900423	NO 1990-1789	19900423
NO 176478	B	19950102		
NO 176478	C	19950412		
DK 9001001	A	19900514	DK 1990-1001	19900423
US 5232936	A	19930803	US 1991-644632	19910123
US 5202339	A	19930413	US 1991-660562	19910225
AU 9221225	A1	19921015	AU 1992-21225	19920821
AU 646967	B2	19940310		
US 35279	E	19960618	US 1994-197705	19940217
PRIORITY APPN. INFO.:				
OTHER SOURCE(S):	CASREACT 114:6501; MARPAT 114:6501			
GI				

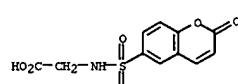


AB Title compds. I (Q = (un)substituted mono- or fused heterocycl) salts or solvates were prepared I are useful for treatment and/or prevention of

L4 ANSWER 38 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)
 various forms of diabetic complications based on the accumulation of polyol metabolites. Intermediates for prep. I are also given. Pharmaceutical formulations comprising I are given. To a suspension of ICl in HCl were added 1-(benzo[b]thien-2-ylsulfonyl)-2-thiohydantoin (prepn, given) and CH₂C₁₂ to give I (Q = benzo[b]thien-2-yl). I (Q = 3-bromo-4,6-dichlorobenzo[b]furan-2-yl) also prep. was tested on bovine lens aldose reductase; the IC₅₀ was 0.054 μ mol/L vs. sorbinil whose IC₅₀ was 0.6 μ mol/L.

IT 123090-34-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of aldose reductase inhibitors)

RN 123090-34-6 CA
 CN Glycine, N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 39 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 111-232812 CA

TITLE: Preparation, testing, and formulation of 1-(arylsulfonyl)hydantoins as aldose reductase inhibitors

INVENTOR(S): Mochida, Ei; Kato, Kazuo; Kato, Katsushi; Miwa, Ichitomo; Okuda, Jun

PATENT ASSIGNEE(S): Mochida Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 47 pp.

CODEN: EPXKDE

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

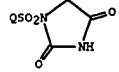
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 305947	A1	19880308	EP 1988-114050	19880829
EP 305947	B1	19920729		
AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE	A2	19880308	JP 1987-214549	19870828
JP 01061465	B2	19880611		
JP 2764262	A1	19880309	WO 1988-JP843	19880825
WO 8901934	A1	19880309		
US, DK, FI, NO				
AU 8821577	A1	19880302	AU 1988-21577	19880826
AU 609180	B2	19910426		
CA 1312083	A1	19921229	CA 1988-575759	19880826
AT 78815	E	19920815	AT 1988-114050	19880829
ES 2042266	T3	19931216	ES 1988-114050	19880829
FI 8901933	A	19890424	FI 1989-1933	19890424
FI 97134	B	19960715		
FI 97134	C	19961025		
NO 8901689	A	19890424	NO 1989-1689	19890424
NO 173053	B	19930712		
NO 173053	C	19931020		
DK 8902073	A	19890428	DK 1989-2073	19890428
US 5004751	A	19910402	US 1989-426021	19891024
US 5202339	A	19930413	US 1991-660562	19910225
US 35279	E	19960618	US 1994-197705	19940217
PRIORITY APPLN. INFO.:				
			JP 1987-214549	A 19870828
			US 1988-235557	A2 19880824
OTHER SOURCE(S):			WO 1988-JP843	A 19880825
GI			EP 1988-114050	A 19880829
			JP 1989-43422	A 19890225
			US 1989-426021	A3 19891024
			JP 1990-43420	A 19900223
			US 1991-644632	A5 19910123

OTHER SOURCE(S): MARPAT 111-232812

GI

L4 ANSWER 39 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)

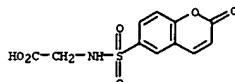


AB The title compound [I; Q = Cl-8 alkyl, C3-6 cycloalkyl, biphenyl, (substituted) heterocycl, 2-naphthalenyl], useful as aldose reductase inhibitors, were prepared. K2CO3, glycine, and 1-chloronaphthalen-2-ylsulfonyl chloride in H2O were refluxed for 30 min in H2O to give N-(1-chloronaphthalen-2-ylsulfonyl)glycine. The latter was heated with pyridine, NH4SCN, and P2O5 for 15 min at 100° to give 1-(1-chloronaphthalen-2-ylsulfonyl)-2-thiohydantoin, which was heated with SO3H in H2O at 100° for 40 min to give 1-(1-chloronaphthalen-2-ylsulfonyl)hydantoin. I inhibited rat lens aldose reductase with IC50's of 0.038-0.66 μmol/L.

IT 123090-34-6
PL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for aldose reductase inhibitor)

RN 123090-34-6 CA

CN Glycine, N-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 40 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 110-57464 CA

TITLE: The chemistry of sulfonylcoumarin derivatives

AUTHOR(S): Creely, Richard J.; Clowes, Sally M.

CORPORATE SOURCE: Div. Chem. Sci., Hatfield Polytech.,

Hatfield/Hertfordshire, AL10 9AB, UK

SOURCE: Journal of the Chemical Society of Pakistan (1988), 10(1), 97-104

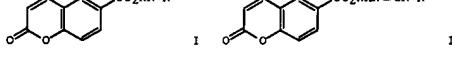
CODEN: JCSPDF; ISSN: 0253-5106

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:57464

GI



II

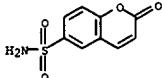
AB 6-(Chlorosulfonyl)coumarin was amidated to give amides I (R1 = H, alkyl; R2 = H, alkyl, PhCH2, tolyl; or NR1R2 = morpholino). Similarly, hydrazones II [R3 = Me, H; R4 = Me, Ph, C1C6H4, O2NCH4; or R3R4 = (CH2)4] were prepared from the sulfonyl chloride via the resp. hydrazide. Some I and II showed fungicidal activity.

IT 90322-59-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)

RN 90322-59-1 CA

CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 41 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 108:167952 CA

TITLE: Synthesis and antimicrobial activity of some new N-coumarin-6-sulfonyl amino acid and dipeptide derivatives

AUTHOR(S): El-Naggar, A. M.; Abd El-Salam, A. M.; Ibrahim, T. M.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Afinidad (1987), 44(411), 431-3

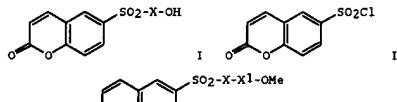
CODEN: AFINAE; ISSN: 0001-9704

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:167952

GI



III

AB Title amino acids I (X = β-Ala, Val, DL-Val, Leu, p-NHC6H4CO (p-Aba), m-NHC6H4CO (m-Aba), Tyr, etc.) were prepared by sulfonylating the appropriate amino acid with sulfonyl chloride II. I were esterified with MeOH via SOCl2 to give the corresponding Me esters. Dipeptides III (X-X1 = β-Ala-DL-Ser, β-Ala-Leu, Pro-Phe, Phe-Val, etc.) were prepared by coupling the appropriate I with H-X1-O-Me·HCl by DCC in THF containing Et3N.

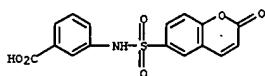
I (X = β-Ala, p-Aba, m-Aba) and the Me esters of I (X = Leu, Pro) were active against a number of microorganisms.

IT 113789-54-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of)

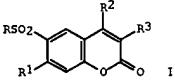
RN 113789-54-1 CA

CN Benzoic acid, 3-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino- (9CI) (CA INDEX NAME)



L4 ANSWER 42 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 108-55829 CA
 TITLE: Some reactions with coumarins sulfonyl chloride and their antibacterial activities
 AUTHOR(S): Aly, F. M.; Bedair, A. H.; El-Assy, R. K. M.
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
 SOURCE: Oriental Journal of Chemistry (1987), 3(1), 76-82
 CODEN: OJCHEG; ISSN: 0970-020X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



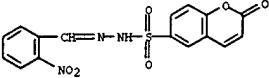
AB Condensation of coumarinsulfonyl chlorides I (R = Cl, R1 = R2 = H, R3 = SO2Cl; R = Cl, R1 = OH, R2 = Me, R3 = H, II) with hydrazine gave the corresponding sulfonylhydrazides I (R = NHNH2, R1 = R2 = H; R = NHNH2, R1 = OH, R2 = Me, R3 = H). Condensation of the sulfonylhydrazides with benzaldehydes R4C6H4CHO (R4 = 2-NO2, 3-NO2, 4-NO2, H, 2-OH) gave the corresponding hydrazones. Condensation of II with amines R5NH2 (R5 = Ph, R6C6H4, 1-C10H7, cyclohexyl, EtCH2Me, R6 = 2-Me, 3-Me, 4-Me, 3-OH, 4-OH) gave the corresponding sulfonylamides and condensation with 3- and 4-(H2N)C6H4 gave the corresponding disulfonamides. The bactericidal activity of the newly prepared compds. was discussed.

IT 105125-20-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and bactericidal activity of)

RN 105125-20-0 CA

CN 2H-1-Benzopyran-6-sulfonic acid, 2-oxo-, [(2-nitrophenyl)methylene]hydrazone (9CI) (CA INDEX NAME)



L4 ANSWER 44 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 105-97956 CA
 TITLE: Lysine derivative and proteinase inhibitor
 INVENTOR(S): Okamoto, Shosuke; Okada, Yoshio; Okunomiya, Akiko; Naito, Taketoshi; Yamada, Morihiko; Kimura, Yoshio; Katsura, Yasuhiro; Suzuki, Hiroshi; Ohno, Norio; Seki, Yumi
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan
 SOURCE: Eur. Pat. Appl., 86 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 193271	A2	19860604	EP 1985-115142	19851129
EP 193271	A3	19870520		
EP 193271	B1	19900516		
R: CH, DE, FR, GB, LI, SE				
JP 61130268	A2	19860618	JP 1984-251985	19841130
JP 61198255	A2	19860822	JP 1985-26556	19850215
JP 61218565	A2	19860929	JP 1985-56153	19850322
JP 62005945	A2	19870112	JP 1985-143952	19850702

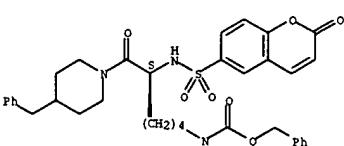
PRIORITY APPLN. INFO.: JP 1984-251985 A 19841130
 JP 1985-26556 A 19850215
 JP 1985-56153 A 19850322
 JP 1985-143952 A 19850702

AB Lysines R121-Lys-R2 (R1 = carbocyclic or heterocyclic aryl; Z1 = SO2, CO; R2 = NH2, substituted amino), which were prepared, showed plasmin inhibition activity. N2-(p-Toluenesulfonyl)-L-lysine 4-benzylpiperide was prepared from N6-(benzylxycarbonyl)lysine in a series of reactions.

IT 103892-78-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of)

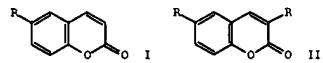
RN 103892-78-0 CA
 CN Carbamic acid, [6-oxo-5-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]-6-[4-(phenylmethyl)-1-piperidinyl]hexyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 43 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 105-208723 CA
 TITLE: Synthesis of coumarin sulfonamides, sulfonates, and related compounds
 AUTHOR(S): El-Maghriby, A. A.; Aly, F. M.; Bedair, A. H.; Emam, H. A.
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt
 SOURCE: Egyptian Journal of Chemistry (1985), Volume Date 1984, 27(4), 459-69
 CODEN: EGJCA3; ISSN: 0367-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Condensation of coumarin-6-sulfonyl chloride I (R = SO2Cl) with H2NCH2CH2NH2 gave sulfonamide I (R = SO2NH(CH2)2NH2), which reacted with aromatic amines to give the corresponding Schiff bases I (R = SO2NH(CH2)2NH2) (R1 = Ph, substituted Ph). Various coumarin-3,6-disulfonamides II (R = SO2NHR1 (R1 = Ph, substituted Ph)), diarylsulfonates II (R = SO3R1 (R1 = substituted Ph)), and coumarin-6-sulfonamides I (R = SO2NHR1 (R1 = Bu, CH2Ph, 2-furyl, piperidyl)) were prepared starting from coumarin-3,6-disulfonamides I (R = SO2Cl).

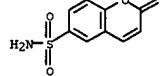
IT 90322-59-1

RL: RCT (Reactant), RACT (Reactant or reagent)

(condensation of, with benzenediazonium chloride)

RN 90322-59-1 CA

CN 2H-1-Benzopyran-6-sulfonic acid, 2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 45 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 98-98756 CA
 TITLE: Blocker photographically useful compounds and photographic compositions, elements and processes employing them
 INVENTOR(S): Mooberry, Jared B.; Archie, William C., Jr.
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA
 SOURCE: U.S., 42 pp. Cont.-in-part of U.S. 4,310,612.
 CODEN: USXKAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4358525	A	19821109	US 1981-292095	19810812
US 4310612	A	19820112	US 1978-949462	19781010
CA 1158642	A1	19831213	CA 1979-332206	19790720
AU 7951503	A1	19800417	AU 1979-51503	19791005
GB 2036994	A	19800702	GB 1979-34892	19791008
GB 2036994	B2	19820811		
JP 55053330	A2	19800418	JP 1979-130716	19791009
JP 62020538	B4	19870507		
BR 7906499	A	19800624	BR 1979-6499	19791009

PRIORITY APPLN. INFO.: US 1978-949462 A 19781010
 GB 1978-40307 A 19781012

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A photog. diffusion-transfer material contains a photog. reagent or dye, blocked in such a way that the compound is resistant to unblocking under storage conditions, but is rapidly unblocked during photog. processing. Thus, a freshly prepared photog. element containing gelatin, a cyan dye-releasing compound (I), a blocked electron transfer agent (II), and Ag halide grains was kept several days at ambient conditions, imagewise exposed, and laminated to a receiving sheet (containing a C layer, a reflecting layer, and a mordant layer on a support) with a processing composition (containing KOH, CMC and KF) between the element and the receiver. The image was viewed through a clear support, and good image discrimination was obtained. A control prepared with p-methylaminophenol instead of II gave no image discrimination at all.

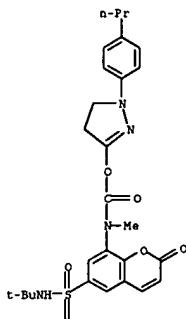
IT 84528-94-9

RL: USES (Uses)

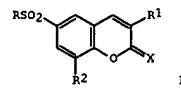
(photog. blocked reagent, unblocking rate for)

RN 84528-94-9 CA

CN Carbamic acid, [6-[(1,1-dimethylethyl)amino]sulfonyl]-2-oxo-2H-1-benzopyran-6-ylmethyl-, 4,5-dihydro-1-(4-propylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)

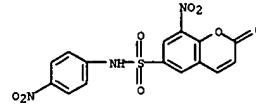


ACCESSION NUMBER: 98-34463 CA
 TITLE: Synthesis and biological activity of coumarin sulfonamides and related compounds
 AUTHOR(S): Islam, A. M.; Bedair, A. H.; El-Maghriby, A. A.; Aly, F. M.; Enam, H. A.
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1982), 21B(6), 487-9
 DOCUMENT TYPE: CODEN: IJSCBDB; ISSN: 0376-4699
 LANGUAGE: Journal
 OTHER SOURCE(S): English
 GI



I

AB The coumarins I [R = BuNH, PhCH2NH, 2-furylmethylamino, (un)substituted anilino, (un)substituted phenoxy; R1 = R2 = H; X = O] were prepared by treating 6-coumarinylsulfonyl chloride with RH. Some I (R1 = R2 = H) were converted to I' (R1 = R2 = Br, R1 = H, R2 = NO2, R = R1 = H, X = S, NOH). Some I had bactericidal activity.
 IT 64015-93-0P
 RL1 RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction with hydrazine)
 RN 84015-93-0 CA
 CN ZH-1-Benzopyran-6-sulfonamide, 8-nitro-N-(4-nitrophenyl)-2-oxo- (9CI) (CA INDEX NAME)

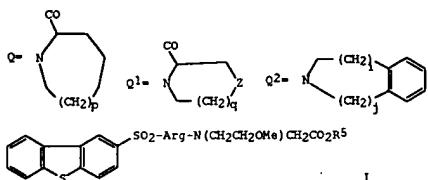


ACCESSION NUMBER: 90-152610 CA
 TITLE: N2-Arylsulfonyl-L-argininamides
 INVENTOR(S): Okamoto, Shosuke; Kikumoto, Ryozo; Tamao, Yoshikuni; Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji; Hijikata, Akiko
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Ger. Offen., 147 pp.
 CODEN: GWXKB
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 15
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2801478	A1	19780720	DE 1978-2801478	19780113
DE 2801478	C2	19910131		
US 4066773	A	19780103	US 1977-760745	19770119
US 4073913	A	19780214	US 1977-760668	19770119
US 4093712	A	19780606	US 1977-760672	19770119
US 4097472	A	19780627	US 1977-760676	19770119
US 4101653	A	19780718	US 1977-760929	19770119
US 4097591	A	19780627	US 1977-776195	19770310
JP 54003037	A2	19790111	JP 1977-66508	19770606
JP 522008	B4	19850314		
US 4125604	A	19781114	US 1977-804334	19770607
US 4131673	A	19781226	US 1977-804368	19770607
US 4140681	A	19790220	US 1977-804331	19770607
IL 53685	A1	19751231	IL 1977-53685	19771223
AU 7832289	A1	19790719	AU 1978-32289	19780109
AU 522320	B2	19820527		
ZA 7800123	A	19790829	ZA 1978-123	19780109
FI 7800073	A	19780720	FI 1978-73	19780110
FI 72316	B	19870130		
FI 72316	C	19870511		
ES 466706	A2	19781016	ES 1978-466706	19780110
NL 7800448	A	19780721	NL 1978-448	19780113
NL 187746	B	19910801		
NL 187746	C	19920102		
SE 7800512	A	19780720	SE 1978-512	19780117
SE 452624	B	19871207		
SE 452624	C	19880317		
HU 22709	O	19820628	HU 1978-MI626	19780117
HU 180265	B	19830228		
DK 7800263	A	19780720	DK 1978-263	19780118
DK 150521	B	19870316		
DK 150521	C	19871019		
NO 7800191	A	19780720	NO 1978-191	19780118
NO 158681	B	19880711		
NO 158681	C	19881019		
FR 2378004	A2	19780818	FR 1978-1368	19780118
FR 2378004	B2	19850913		
GB 1596971	A	19810903	GB 1978-2063	19780118
PL 123267	B1	19821030	PL 1978-204063	19780118
CH 633773	A	19821231	CH 1978-519	19780118
CH 648293	A	19850315	CH 1978-4530	19780118
SU 1181539	A3	19850923	SU 1978-2566652	19780118
BE 863092	A4	19780719	BE 1978-184463	19780119
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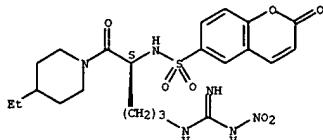
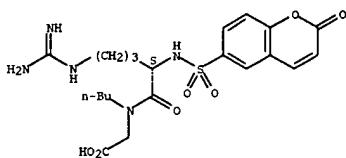
AT 7800399	A	19820515	AT 1978-399	19780119
AT 369356	B	19821227		
CS 236757	B2	19850515	CS 1978-381	19780119
JP 62014548	B4	19870402	JP 1978-4529	19780119
JP 54100342	A2	19790808		
US 4173630	A	19791106	US 1978-902855	19780504
SU 938739	A3	19820623	SU 1979-2776611	19790618
AT 8003284	A	19820515	AT 1980-3284	19800623
AT 369357	B	19821227		
AT 8003285	A	19820515	AT 1980-3285	19800623
AT 369358	B	19821227		
CS 236772	B2	19850515	CS 1981-2011	19810319
CS 236773	B2	19850515	CS 1981-2012	19810319
FI 8402539	A	19840621	FI 1984-2539	19840621
FI 74455	B	19871030		
FI 74455	C	19890208		
PRIORITY APPLN. INFO.:				
US 1977-760668	A	1977-760668	A	19770119
US 1977-760672	A	1977-760672	A	19770119
US 1977-760676	A	1977-760676	A	19770119
US 1977-760745	A	1977-760745	A	19770119
US 1977-760929	A	1977-760929	A	19770119
US 1977-776195	A	1977-776195	A	19770310
JP 1977-66508	A	1977-66508	A	19770606
US 1977-804331	A	1977-804331	A	19770607
US 1977-804368	A	1977-804368	A	19770607
JP 1974-128774	A	1974-128774	A	19741108
JP 1974-128775	A	1974-128775	A	19741108
JP 1974-136695	A	1974-136695	A	19741129
JP 1974-136697	A	1974-136697	A	19741129
JP 1975-23268	A	1975-23268	A	19750225
JP 1975-23635	A	1975-23635	A	19750226
JP 1975-26768	A	1975-26768	A	19750305
JP 1975-29357	A	1975-29357	A	19750311
JP 1975-62	A	1975-62	2394A3	19751014
US 1975-622390	A3	19751014		
US 1975-638985	A2	19751209		
US 1976-646522	A	19760105		
US 1976-649219	A	19760114		
US 1976-653217	A2	19760128		
US 1976-656014	A	19760206		
US 1976-656870	A	19760210		
US 1976-669743	A	19760324		
US 1976-671436	A2	19760329		
US 1976-671568	A2	19760329		
US 1976-703704	A2	19760708		
US 1976-707536	A2	19760722		
US 1976-713486	A2	19760811		
US 1976-723474	A	19760914		
US 1976-728051	A	19760930		
US 1977-760677	A2	19770119		
FI 1978-73	A	19780110		
CH 1978-519	A	19780118		
AT 1978-399	A	19780119		
CS 1978-381	A3	19780119		

GI



AB RSO2-Arg-X-OR1 [R = substituted Ph, substituted naphthyl, heterocyclic group; X = NR2(CH2)nCO (R2 = aliphatic, aralkyl, carbocyclic, or heterocyclic group; n = 1-3), NR3CHR4(CH2)mCO (R3 = H or R2; R4 = C1-10 alkyl, substituted C1-10 alkyl, C1-12 aralkyl, substituted benzyl; m = 0-2), substituted piperidinecarboxylic acid residue, Q (p = 1-4), Q1 (Z = O, S, SO, q = 0, 1), Q2 (i and j = 0-2 where i + j = 1 or 2); R1 = H, C1-10 alkyl, C6-10 aryl, C7-12 aralkyl] and their salts (apprx.135 compds.) were prepared as thrombin inhibitors. Thus, arginine was acylated with 2-dibenzothiophenesulfonyl chloride to give the N2-sulfonyl derivative, which was converted to its acid chloride and amidated with MeOCH2CH2-Gly-OEt to give peptide I (R5 = Et) (II). II was saponified to give I (R5 = H) (III).
 IT 69129-65-7P
 RL: SPM (Synthetic preparation), PREP (Preparation)
 (preparation of)
 RN 69129-65-7 CA
 CN Glycine, N-butyl-N-[N2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]-L-arginy1]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

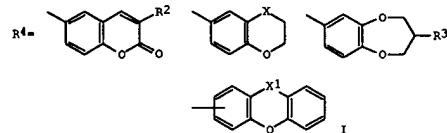


14 ANSWER 48 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 88-7366 CA
 TITLE: N2-Substituted-L-argininamides
 INVENTOR(S): Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji; Hijikata, Akiko
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52083655	A2	19770712	JP 1976-254	19760101
JP 59042675	B4	19841016		

PRIORITY APPLN. INFO.: JP 1976-254 A 19760101

GI



AB Thirty-four title derivs. H2NC(:NH)NH(CH2)3CH(CONR1)NSO2R4 (I, R, R1 = H, Me, Bu, MeOCH2CH2, MeO2CH2CH2, PhCH2; NR1 may form a heterocyclic ring; R2 = H, Et; R3 = H, Meo, Et; X = CH2, O; XI = a bond, CH2, O) and their acid salts were prepared e.g., by removal of the substituents from NG-substituted-N2-substituted-L-argininamide derivs. I had antithrombotic activity (data obtained with bovine fibrinogen). Thus, a mixture of 1.08 g 4-ethyl-1-[NG-nitro-N2-(6-coumarinsulfonyl)-L-arginy1]piperidine, 0.64 g PhOMe, and 3 mL HF was stirred 30 min with ice cooling to give 78% 4-ethyl-1-[N2-(6-coumarinsulfonyl)-L-arginy1]piperidine-HF.

IT 69233-63-6
 RL: RCT (Reactant), RACT (Reactant or reagent)
 (denitration of)
 RN 69233-63-6 CA
 CN Piperidine, 4-ethyl-1-[5-[[imino(nitroamino)methyl]amino]-1-oxo-2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]pentyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER: 87-202117 CA
 TITLE: NG-Substituted-N2-coumarinsulfonylargininamides
 INVENTOR(S): Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji; Hijikata, Akiko
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

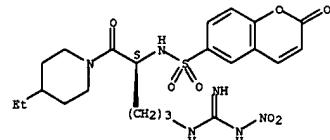
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52083655	A2	19770712	JP 1976-249	19760101
JP 60047268	B4	19851021		

PRIORITY APPLN. INFO.: JP 1976-249 A 19760101

GI For diagram(s), see printed CA Issue.
 AB Nine title derivs. I (R = NO2, PhCH2O2C; R1 = H, PhCH2O2C; R2, R3 = H, Me, Bu, PhCH2, MeO2CH2CH2; NR2R3 may form a heterocyclic ring; R4 = H, Et) were prepared by reaction of HNRC(:NH)NR1(CH2)3CH(NH2)CONR2R3 with 6-coumarinsulfonyl chloride (II) or 3-ethyl-6-coumarinsulfonyl chloride. Thus, 2.4 g K2CO3 and 2.35 g II were added to 3 g 4-ethyl-1-NG-nitro-L-arginy1)piperidine-HCl in aqueous dioxane and the mixture was stirred 3 h at room temperature to give 71% I (R = NO2, R1 = R4 = H, NR2R3 = 4-ethylpiperidino).
 IT 69233-63-6P
 RL: SPM (Synthetic preparation), PREP (Preparation)
 (preparation of)

RN 69233-63-6 CA
 CN Piperidine, 4-ethyl-1-[5-[[imino(nitroamino)methyl]amino]-1-oxo-2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]pentyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

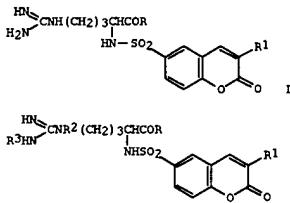


10/801,910

L4 ANSWER 50 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 87-85236 CA
 TITLE: N2-Coumarinsulfonylarginineamides
 INVENTOR(S): Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni;
 Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji;
 Hijikata, Akiko
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JICKAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52014769	A2	19770203	JP 1975-89406	19750722
JP 60047266	B4	19851021		

PRIORITY APPLN. INFO.:
 GI

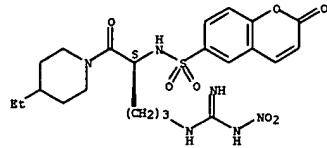


AB Eleven N2-coumarinsulfonylarginineamides I (R = 4-substituted piperidino, morpholino, BuMeN, MeO2CCCH2CH2NH, BuNH, PhCH2NH, 4-substituted piperazino; R1 = H, Et) and their acid salts were prepared by removal of the guanidine-protecting groups from NG-substituted-coumarinsulfonylarginineamides II (R2, R3 = H, guanidine-protecting groups; both R2 and R3 are not H). I had antithrombin activity. Thus, 0.64 g anisole and 3 mL HF were added to 1.08 g II (R = 4-ethylpiperidino, R1 = R2 = H, R3 = NO2) with Dry Ice-Me2CO cooling and the mixture was stirred 30 min with ice cooling to give 78% I.HF (R = 4-ethylpiperidino, R1 = H).
 IT 63233-63-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (deblocking of)

RN 63233-63-6 CA
 CN Piperidine, 4-ethyl-1-[5-[(imino(nitroamino)methyl)amino]-1-oxo-2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]pentyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

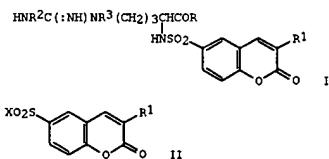
L4 ANSWER 50 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 51 OF 58 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 87-53080 CA
 TITLE: NG-Substituted-N2-coumarinsulfonylarginine amides
 INVENTOR(S): Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni;
 Okubo, Kazuo; Tezuka, Toru; Tonomura, Shinji;
 Hijikata, Akiko
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JICKAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52014770	A2	19770203	JP 1975-89890	19750723
JP 60047267	B4	19851021		

PRIORITY APPLN. INFO.:
 GI



AB Twelve NG-substituted-N2-coumarinsulfonylarginine amides I (R = 4-substituted piperidino, morpholino, BuMeN, MeO2CCCH2CH2NH, BuNH, PhCH2NH, 4-substituted piperazino; R1 = H, Et; R2 = NO2, PhCH2O2C; R3 = H, PhCH2O2C) were prepared by reaction of NG-substituted-argininamides R2NH(:NH)NR3(CH2)3CH(COR)NH2 with coumarinsulfonyl halides II (X = halo). Thus, 2.4 g K2CO3 and 2.35 g II (R1 = H, X = Cl) were added to 3.0 g 4-ethyl-1-(NG-nitro-L-arginyl)piperidine-HCl in aqueous dioxane and the whole

was stirred 3 h at room temperature to give 71% I (R = 4-ethylpiperidino,

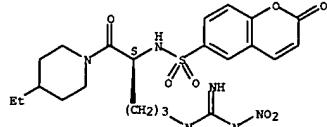
R1 = R3 = H, R2 = NO2).

IT 63233-63-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 63233-63-6 CA
 CN Piperidine, 4-ethyl-1-[5-[(imino(nitroamino)methyl)amino]-1-oxo-2-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino]pentyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 51 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 52 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 59:66492 CA

ORIGINAL REFERENCE NO.: 59:12270a-b

TITLE: Dipole-moment measurements of coumarin derivatives and their orientation at a dropping-mercury electrode
 AUTHOR(S): Griffiths, V. S.; Westmore, J. B.
 CORPORATE SOURCE: Battersea Coll. Technol., London
 SOURCE: Journal of the Chemical Society, Abstracts (1963), (Oct.), 4941-5
 CODEN: JCSAAZ ISSN: 0590-9791

DOCUMENT TYPE: Journal

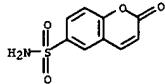
LANGUAGE: Unavailable

AB The dipole moments of coumarin and its 6-amino-, 6-acetamido-, 6-sulfamoyl-, and 6-chlorosulfonyl derivs. were determined. Coumarin derivs. are adsorbed with the dipole moment parallel to the Hg surface.

IT 90322-59-1, Coumarin, 6-sulfamoyl- (elec. moment of, polarography and)

RN 90322-59-1 CA

CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 54 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 55:31877 CA

ORIGINAL REFERENCE NO.: 55:6213g-h

TITLE: Electrodeposition of nickel
 INVENTOR(S): Marx, Ulrich F.

PATENT ASSIGNEE(S): Wilmet-Breden Ltd.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

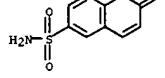
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2961386	19601122	US	.	
DE 1106140		DE		
GB 852030		GB		
GB 853967		GB		

AB Coumarin derivs. as additives to conventional Ni electropolating baths give improved deposition. Thus, 0.25-0.5 g. "6-sulfamidocoumarin"/l. may be added to a Watts' solution. Other derivs. useful are coumarin bisulfite and its salts, 6-nitrocoumarin, 6-aminocoumarin, and 6-acetamidocoumarin.

IT 90322-59-1, Coumarin, 6-sulfamoyl- (in nickel electropolating)

RN 90322-59-1 CA

CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 53 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 55:58290 CA

ORIGINAL REFERENCE NO.: 55:11145h-i

TITLE: Electrodeposition of nickel
 INVENTOR(S): Marx, Ulrich Francis

PATENT ASSIGNEE(S): Wilmet-Breden Ltd.

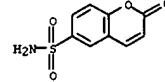
DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 853995	GB			
AB Ni electrodeposits which are bright, level, and ductile are obtained by use of a bath which contains an acidic aqueous solution of a Ni electrolyte and 0.25-0.5 g./l. each of both 6-sulfamoylcoumarin and 6-acetamidocoumarin. Cf. Brit. 622,761.				
IT 90322-59-1	Coumarin, 6-sulfamoyl- (nickel bright electropolating in baths containing)			
RN 90322-59-1 CA				
CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)				



L4 ANSWER 55 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 51:90692 CA

ORIGINAL REFERENCE NO.: 51:16449a-d

TITLE: Substitution in the benzopyrone series. III. Sulfonation of some 5-hydroxycoumarin derivs.

AUTHOR(S): Merchant, J. R.; Shah, R. C.

CORPORATE SOURCE: Inst. Sci., Bombay

SOURCE: J. Indian Chem. Soc. (1957), 34, 45-50

DOCUMENT TYPE: Journal

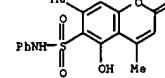
LANGUAGE: Unavailable

AB The following compds. were sulfonated, the number of moles ClSO3H, hrs. of heating, and products of sulfonation being given after each: 5-hydroxy-6-carboxy-4-methylcoumarin (I), 2.5, 100°, 2, the 8-SO3H (II) [5-benzylisothiouronium (III) derivative, m. 222-4°] and 8-SO2Cl (m. 178-80°) compds. (anilide, m. 238-40°); I, 15, 100°, 2, 5-dihydroxy-6-carboxy-4-methyl-3,8-coumarindisulfonic acid (IV) (m. 202-3°; III derivative, m. 209-10°); I, 10, 130-40°, 6, a trisulfonic acid; 5-hydroxy-6-carboxy-4-methylcoumarin (V), 2.5, 100°, 2, IV; V, 10, 100°, 2, IV and the 8-SO2Cl compound (VI) (m. 218-20°; anilide, m. 260° (decomposition)); V, 10, 140°, 6, a trisulfonic acid; 5-hydroxy-4-methylcoumarin (VII), 8, 100°, 2, the 6,8-di-SO3H compound (VIII) (III derivative, m. 177-9°); VII, 8, 140°, 6, the 3,6,8-tri-SO3H compound; 5-methoxy-4-methylcoumarin, 1, 60°, 1.5 (in dry CHCl3), a monosulfonic acid (III derivative, m. 116-18°), 5-hydroxy-4,7-dimethylcoumarin, excess ClSO3H, 100°, 2, the 6-SO3H (IX) (III derivative, m. 182°) and 6-SO2Cl (m. 164-6°) compds. (anilide, m. 201-3°); 5-methoxy-6-carboxy-4-methylcoumarin (m. 216-18°, prepared from its Me ester), 50-60°, demethylated sulfonation products. Hydrolysis of II (Na salt) and VI each gave the 8-SO3H compound of V [III derivative, m. 198-200° (decomposition)]. Oxidation of II and IV with alkaline permanganate each gave 3,2,6-HO3S(HO)2C6H2CO2H

(III) derivative, m. 142-4°). Nitration of IV gave 5-hydroxy-3,8-dinitrocoumarin, m. 208-9° (decomposition), as did also nitration of V and of VII. Nitration of VIII yielded 5-hydroxy-6,8-dinitro-4-methylcoumarin, m. 182-4°, and of IX, 5-hydroxy-3,6,8-trinitro-4,7-dimethylcoumarin, m. 216-18° (decomposition). IT 101569-33-9, Coumarin, 5-hydroxy-4,7-dimethyl-6-(phenylsulfamoyl)- (preparation of)

RN 101569-33-9 CA

CN Coumarin, 5-hydroxy-4,7-dimethyl-6-(phenylsulfamoyl)- (6CI) (CA INDEX NAME)



L4 ANSWER 56 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 51:90691 CA

ORIGINAL REFERENCE NO.: 51:16448d-i,16449a

TITLE: Substitution in the benzopyrone series. II.

Sulfonation of coumarin derivatives

AUTHOR(S): Merchant, J. R.; Shah, R. C.

CORPORATE SOURCE: Inst. Sci., Bombay

SOURCE: J. Indian Chem. Soc. (1957), 34, 35-41

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB ClSO_3H (2 moles) added gradually with cooling to coumarin, and the mixture heated 2 hrs. at 100°, cooled, and poured over crushed ice gave a mixture of the 6- SO_3H (I) and 6- SO_2Cl (m. 119-20°) compds.S-benzylsulfotriuronium (II) derivative of I, m. 212-14°. The following compds. were treated similarly, the figures after each referring to moles ClSO_3H , temperature, and hrs. of heating, resp., and the products of sulfonation

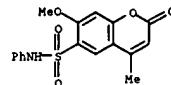
Being given last: coumarin, 6, 130-40°, 3, the 3,6-di- SO_3H (III) (II derivative, m. 194-6°) and 3,6-di- SO_2Cl (m. 173-5°) compds. (amide, m. above 270°, anilide, m. 218-20°); 6-nitrocoumarin, 10, 130-40°, 4, the 3- SO_3H (IV) (II derivative, m. 230-2°) and 3- SO_2Cl (m. 204-5°) compds. (amide, m. above 290°, anilide, m. 130°); 7-hydroxy-4-methylcoumarin (V), 4, 100°, 2, the 6- SO_3H (VI) (II derivative, m. 180-2°) and 6- SO_2Cl (VII) (m. 178-80°) compds. (amide, m. above 290°, anilide, m. 245-6°); V, 4, 130-40°, 4, the 6,8-di- SO_3H compound; V, 6, 140°, 4, the 3,6,8-tri- SO_3H compound; 7-hydroxy-3,6-dibromo-4-methylcoumarin, 10, 100°, 2, the 6- SO_3H compound (VIII) (II derivative, m. 205-6°); 7-hydroxy-3,8-dibromo-4-methylcoumarin, 7, 5, 100°, 2, the 6- SO_3H (II derivative, m. 238° (decomposition)) and 6- SO_2Cl (IX) (m. 214° (decomposition)) compds. (anilide, m. 210-12°); 7-methoxy-4-methylcoumarin (X), 4, 3, 100°, 2, the 6- SO_3H (XI) (m. 175° (decomposition)) (II derivative, m. 250°) and 6- SO_2Cl (XII) (m. 203-4°) compds. (amide, m. above 310°; anilide, m. 209-10°); X, 8, 60°, 3 (in dry CHCl_3), the 3,6-di- SO_3H (XIII) (II derivative, m. 244° (decomposition)) and 3,6-di- SO_2Cl (m. 230-2°) compds. (anilide, m. 245-7°); X, excess ClSO_3H , 130-40°, a demethylated trisulfonic acid; 7-methoxy-3-bromo-6-methylcoumarin, 4, 100°, 2, the 6- SO_3H (II derivative, m. 280° (decomposition)) and 6- SO_2Cl (XIV) (m. 227-9°) compds. (anilide, m. 236-8°); 7-hydroxy-6-carboxythoxy-4-methylcoumarin, 1, 60°, 2 (in dry CHCl_3); 7-hydroxy-6-carboxy-4-methyl-8-coumarin sulfonic acid (XV) (II derivative, m. 209-11°) + unchanged substance; 7-hydroxy-6-carboxy-4-methylcoumarin, 4, 100°, 2, the 3,8-di- SO_3H compound (XVI). The position of the SO_3H group in I and III was proved by oxidation of the Na salt with alkaline permanganate to give, in each case, 5-sulfosalicylic acid (II derivative, m. 194-6°). The same treatment of IV gave 5-nitrosalicylic acid, m. 227-8°. Bromination of VI (Na salt) with 1 mole Br in HOAc gave the 3,6,8-tri-Br compound, m. 250-2°, as did also bromination of VIII. VII (1 g. in 10 cc. glacial HOAc) treated hot with 11 cc. 10% Br in HOAc and left 6 hrs. at room temperature gave IX. XII brominated likewise yielded XIV. The Na salt of

XI heated 15 min. with 2 moles Br in HOAc and poured into H_2O gave the 3,6-di-Br compound, m. 240° (from HOAc), as did XIII (di-Na salt) when treated with 3 moles Br. Oxidation of XI with alkaline permanganate gave

L4 ANSWER 56 OF 58 CA COPYRIGHT 2005 ACS on STN (Continued)

2,4,5-HD(MeO)(HO)C₆H₂CO₂H (XVII) (II deriv.) (decompn.), which upon bromination of its Na salt yielded the 5-Br compd., m. 251-2°. The structure of 5,2,4-HD₃(HO)C₆H₂CO₂H (II deriv., m. 201-2°) obtained by Senhofer and Brunner [Chem. Zentr. 1, 566 (1919)] by sulfonating β -resorcylic acid was confirmed by its methylation to XVII. Bromination of XV and XVI gave in each case the 3,8-di-Br compd., m. 284-6° (decompn.).

IT 109590-22-9, Herniarin, 4-methyl-6-(phenylsulfamoyl)- (preparation of)

RN 109590-22-9 CA
CN Herniarin, 4-methyl-6-(phenylsulfamoyl)- (6CI) (CA INDEX NAME)

L4 ANSWER 57 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 40:20732 CA

ORIGINAL REFERENCE NO.: 40:4046d-g

TITLE: New derivatives of homophthalic acid

AUTHOR(S): Bui-Hoi

SOURCE: Compt. rend. (1944), 218, 942-3

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

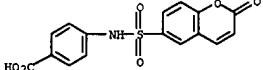
GI For diagram(s), see printed CA Issue.

AB cf. C.A. 40, 853.9. Esters of homophthalic acid (I) were prepared in the usual ways. α -Arylidenehomophthalic acids, α -HO₂CC₆H₄(C:CHR)CO₂H (II), were prepared from I and the appropriate aldehyde in the presence of Et₃Na. The II yielded anhydrides, CO₂CH₄.C(CHR).CO₂H (III), by heating with AcCl. Reduction of II with 2.5% Na-Hg gave α -arylhomophthalic acids, α -HO₂CC₆H₄CH(C₂H₅)CO₂H (IV), which in turn yielded anhydrides, CO₂CH₄.C(CHR).CO₂O (V). Di-Et ester of I, solid (previously reported as liquid), b₁₂ 160-2°, di-iso-Pr ester, m. 30°. II: R = $\text{o-MeOCH}_2\text{H}_4$, m. 212°; 3,4-MeO(HO)C₆H₃, m. 184°; $\text{o-ClC}_6\text{H}_4$, m. 240° (decomposition); p-O₂NC₆H₄, m. 239° (decomposition). III: R = $\text{o-MeOCH}_2\text{H}_4$, yellow m. 171°; 3,4-(MeO)C₆H₃, orange-red, m. 189°; IV: R = $\text{o-MeOCH}_2\text{H}_4$, m. 168°; 3,4-(MeO)C₆H₃, m. 153°; 3,4-CH₂OC₆H₃, m. 177°. VI: R = 3,4-(MeO)C₆H₃, m. 152°; p-MeOCH₂H₄, m. 158-9°. Condensation of I with $\text{o-HOCH}_2\text{H}_4\text{CH}_2$ did not lead to II, but gave 3-(2-carboxyphenyl)coumarin, m. 177°.

IT 113789-53-0, Coumarin, 6-(p-carboxyphenylsulfamyl)- (preparation of)

RN 113789-53-0 CA

CN Benzoic acid, 4-[(2-oxo-2H-1-benzopyran-6-yl)sulfonyl]amino- (9CI) (CA INDEX NAME)



L4 ANSWER 58 OF 58 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 40:20732 CA

ORIGINAL REFERENCE NO.: 40:1804a-f

TITLE: Derivatives of sulfanilamide. IV

AUTHOR(S): Rubtsov, M. V.; Fedosova, V. M.

SOURCE: Zhurnal Obschhei Khimii (1944), 14, 857-64

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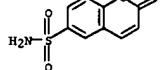
LANGUAGE: English

AB 6-Methoxy-2-chloroquinolines (25 g.) in 50 g. PhOH was heated to 135° and treated with dry NH_3 , cooled, treated with Me_2CO , filtered and treated with EtOH-HCl , and the separated HCl salt neutralized to yield 6-methoxy-2-phenoxypyridine, b₃ 183°, m. 46°. 6-Methoxy-2-chloroquinolines (17 g.) and 40 g. AcNH_2 were heated to 180° for 4 h. and 200° for 2 h. with treatment with gaseous NH_3 ; no reaction occurred; after addition of 1.7 g. CuCl and continuation of the reaction for 12 h. at 200° there was obtained 6.7 g. 6-methoxy-2-aminquinoline, m. 175° (from water); 4 g. of this and 5.4 g. p-AcNH₂CH₂SO₂Cl (I) in pyridine gave after 3 h. at 90-100° 2-(p-acetamidophenylsulfonamido)-6-methoxyquinoline, m. 245-6° (from 50% AcOH), which was hydrolyzed by 10% NaOH to 2-sulfanilamido-6-methoxyquinoline, m. 214.5° (from 50% AcOH). 4-Amino-6-methoxyquinoline (4 g.) and 5.4 g. I gave, as above, 2.4 g. 4-(p-acetamidophenylsulfonamido)-6-methoxyquinoline, m. 292° (from water), which was hydrolyzed by 10% NaOH to 4-sulfanilamido-6-methoxyquinoline, m. 274° (from 50% AcOH). 6-Aminoquinoline (7.2 g.) and 11.7 g. I gave 6-(p-acetamidophenylsulfonamido)quinoline, m. 282°, which was hydrolyzed by 17% HCl to 6-sulfanilamidoquinoline, m. 209-10° (from 50% EtOH). Coumarin (10 g.), added with cooling to 40 g. ClSO_3H , heated to 100° for 4 h., cooled, and poured on ice yielded 10 g. 6-coumarinsulfonyl chloride, m. 116° (from $(\text{CH}_2\text{Cl})_2$); treatment with 15% NH_4OH at 35° gave 6-sulfamylcoumarin, m. 185° (from water), while substitution of sulfanilamide for NH_4OH gave N-(p-sulfamylphenyl)-6-coumarinsulfonamide, m. 219° (from 50% EtOH), and the use of p-H₂NCH₂CO₂H gave p-carboxy-6-coumarinsulfonamide, m. 241° (from 65% AcOH). Coumarinsulfonyl chloride and p-AcNH₂CH₂NH₂ gave p-acetamido-6-coumarinsulfonamide, m. 280° (from 75% AcOH), which was hydrolyzed by 10% NaOH to p-aminocoumarin (2.9 g.) with 2.4 g. I in Me_2CO gave 3.5 g. 6-(p-acetamidophenylsulfonamido)coumarin, m. 230° (from 75% AcOH), which was hydrolyzed with 10% NaOH to 6-sulfanilamidoquinoline, m. 191° (from 50% EtOH). Only the last compound showed promising activity against streptococci, pneumococci, and staphylococci.

IT 90322-59-1, Coumarin, 6-sulfamyl- (preparation of)

RN 90322-59-1 CA

CN 2H-1-Benzopyran-6-sulfonamide, 2-oxo- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 14:00:26 ON 26 MAY 2005)

FILE 'REGISTRY' ENTERED AT 14:00:32 ON 26. MAY 2005

L1 STRUCTURE UPLOADED
L2 29 S L1 SAM
L3 642 S L1 FULL

FILE 'CA' ENTERED AT 14:00:51 ON 26 MAY 2005

L4 58 S L3

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